

MICROBIAL ASSESSMENT (POST- VENTILATION INSTALLATION) - SECOND INSPECTION

HELENSBURGH
COMMUNITY CENTRE

26 WALKER STREET
HELENSBURGH NSW 2508

Client:
Wollongong City Council
Burelli Street,
Wollongong NSW 2500

Reference:	Revision:	Date of Report:	Prepared By:	Authorised By:
20-13128-02-OH	Revision 0	8/11/2021	Luke Parkins	Michael Fernandez

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1 Introduction and Scope

Clearsafe Environmental Solutions Pty Ltd (Clearsafe) was requested by Wollongong City Council (hereafter referred to as 'The Client') to undertake a limited assessment with regard to microbial levels within the subfloor space beneath the basketball court at the Helensburgh Community Centre, 26 Walker Street, Helensburgh NSW 2508. The investigation was commissioned as part of a periodical assessment subsequent to the installation of new ventilation within the basketball court subfloor. The previous investigation on the 10/8/2021 within the basketball court subfloor identified significantly high levels of mould, bacteria and moisture content. Concerns have also been previously raised about the structural integrity of the timber floorboards, joists and bearers and the risk they may present to any occupants within the immediate area. The aim of the current investigation is to assess the current conditions within the subfloor of the building noting any significant change in microbial/moisture readings following the initial inspection post-installation of the ventilation.

The agreed Scope of Work is summarised below:

- Moisture level spot checks in several locations throughout the subfloor/basketball court using a hand-held moisture meter.
- Surficial microbial sampling (yeast, mould and bacteria) in nine (9) locations using sterilised swabs (Including a blank and reference sample)
- Visual inspection of the Helensburgh Community centre basketball court subfloor for visible evidence of water ingress and mould growth.
- Recommendations on the treatment of the mould and the surfaces affected.
- Preparation of a professional report summarising the findings of the investigation.

2 Limitations

All work is conducted in a conscientious and professional manner, with due diligence and appropriate care. However due to the disproportionate cost of potential damages or liability relative to the cost of our services, Clearsafe cannot offer any guarantee that all hazards have been identified. Subsequently, Clearsafe's liability to the client or any other party resulting from the performance or non-performance of the service, whether under contract law, tort law or otherwise, is limited to a maximum of up to five (5) times the total fee excluding expenses.

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3 Sampling Details

A site inspection and sampling was undertaken on the 26th of October 2021.

A TechCheck Plus (SN 13960) hand held moisture meter was used to undertake spot checks and measure relative moisture levels within representative building materials such as timber floorboards and joists within a limited number of representative areas within the nominated subfloor.

Microbial samples were collected onto sterile, sealed and pre-packaged transport swabs/growth media using standard Clearsafe sampling procedures. The samples were transported in an iced insulated box and arrived at the nominated testing laboratory within 24hrs subsequent to the sampling.

Samples were collected from locations which were considered to be representative of the general conditions at the time of sampling.

The microbial sampling program was limited to surficial viable microorganisms in selected locations and during a specific period in time. Viable microorganism concentrations are known to vary markedly with differing meteorological and seasonal conditions.

4 Adopted Standards

Viable micro-organisms are common on urban surfaces and within indoor air. Microbial levels are relevant to indoor air quality as they can cause allergies and infections and may also negatively impact on an area's aesthetics by affecting surface coatings and releasing odorous volatile organic compounds.

The human body is well adapted to cope with most micro-organisms that are regularly encountered. As such it has not been possible for the scientific community to reproducibly establish levels of micro-organisms (on surfaces or in air) that are considered to be 'safe' or 'unsafe'.

The established methodology for assessing microbial levels is to collect samples from both affected and non-affected locations and make comparisons. It is common for there to be large variations detected between locations and therefore Clearsafe, in line with the industry accepted standard, uses the following triggers to indicate a need for remediation or further investigation:

- Evident mould growth as observed by a trained and experienced consultant.
- Microbial sample results greater than double (x2) the reference sample.

5 Observations

The site consists of the Helensburgh Community Centre located at 26 Walker Street Helensburgh. The primary area of concern for this report is within the subfloor of the Helensburgh Community Centre basketball court.

Clearsafe has been advised previously, the following information from the client:

- The timber floorboards of the western section (approximately $\frac{1}{3}$) of the basketball courts were scheduled to be removed and replaced. A small section of the timber floorboards were removed (approximately 1m x 1.5m) and the removal contractor identified apparent visible mould on the timber joists and bearers which subsequently triggered the need for an investigation (27/11/2020)
- The basketball court is hired out to external parties for use
- Mouldy/musty olfactory sensations had been reported within the subfloor of the basketball court
- Ventilation had been installed several months previous to allow for adequate airflow within the subfloor space

The following observations were noted during the inspection:

- A mouldy/musty odour was present within the subfloor of the basketball court at the time of the inspection
- The western section of the basketball court was no longer barricaded and the area was freely accessible
- Visible microbial growth was still observed on the underside of the floorboards and on structural timber joists/bearers within the subfloor
- At the time of the inspection, four (4) kennards hire blower dryers were observed within the subfloor and were in use
- The ground surfaces and timber joists/bearers within the subfloor were not visibly damp or damp to the touch as opposed to previous assessments.
- A white growth was still observed on the western and northern brick walls of the subfloor
- Several timber joists and timber bearers within the subfloor were completely broken off and/or were significantly damaged, potentially compromising the timber floors structural integrity

- The condition of the basketball court timber floorboards, viewed from above, had worsened in the western section.
- Several fibrous cement fragments (presumed to be asbestos-containing) were observed within the subfloor at the time of the inspection

6 Moisture Level Spot Checks

Method:

A Tech Check Plus hand held moisture meter was used to measure moisture within timber surfaces in several locations.

Results:

Table 1: Moisture level of timber surfaces

Location	Timber Surfaces (%)
Internal, basketball court (western section), subfloor timber bearer immediately adjacent exposed entry	14.6% (Previous inspection; 16.2%)
Internal, basketball court (western section), subfloor timber joist immediately adjacent exposed entry	17.5% (Previous inspection; 22.2%)
Internal, basketball court (western section), timber hardwood floor immediately adjacent exposed entry	16.2% (Previous inspection; 21.8%)
Internal, basketball court (central section), underside of timber joist	16.7% (Previous inspection; 32.5%)
Internal, basketball court (eastern section), underside of timber bearer	15.2% (Previous inspection; 25.1%)

Discussion:

In regards to moisture content readings, all of the sampled timber locations reported results slightly above what is considered to be an acceptable limit for hardwood timbers (9-14% moisture content as per *AS 2796.1-1999 Timber-hardwood-sawn and milled products-part 1:product specification, Standards Australia 1999*). However, all sampled timbers had significantly lower moisture readings than identified previously and are only slightly above recommended levels. The previous investigation within the subfloor had visually identified moisture dripping from the underside of the timber surfaces and on the northern and western brick walls, that of which was not visually observed during the current inspection.

7 Surficial Microbial Sampling

Method:

Surficial microbial sampling was undertaken in nine (9) locations using swabs (including a blank and reference sample). The swabs are used to collect microbial spores from direct contact with surfaces and are then placed onto growth media and incubated in a controlled environment, before being analysed for viable colony forming units (CFU). The results are then compared with control samples collected from a similar non-affected location nearby.

Note: In regards to the table below, 'initial inspection' refers to the results taken during the first inspection subsequent to the installation of the new ventilation within the subfloor (10/8/2021).

Results:

Table 2: Surficial Microbial Counts Using Swabs

Sample No.	Location	Bacteria Count (CFU/plate)	Yeast Count (CFU/plate)	Mould Count (CFU/plate)
20-13128/ Blank	Field Blank	<10 (Initial inspection result <10)	<10 (Initial inspection result <10)	<10 (Initial inspection result <10)
20-13128/ Ref	Internal, basketball court, on fire hose reel box immediately adjacent southern entry	<10 (Initial inspection result <10)	<10 (Initial inspection result <10)	<10 (Initial inspection result <10)
20-13128/ S1	Subfloor (beneath basketball court), on top surface of PVC pipe immediately adjacent eastern subfloor entry	4100 (Initial inspection result 6200)	<10 (Initial inspection result <10)	>3000 est. (Initial inspection result >3000 est.)
20-13128/ S2	Subfloor (beneath basketball court), centrally located, on underside of timber floorboards	80 est. (Initial inspection result 80 est.)	<10 (Initial inspection result <10)	>3000 est. (Initial inspection result 710)
20-13128/ S3	Subfloor (beneath basketball court), on northern brick wall	90 est. (Initial inspection result >30000 est.)	<10 (Initial inspection result <10)	260 (Initial inspection result 940)

20-13128/ S4	Subfloor (beneath basketball court), on broken timber bearer immediately adjacent subfloor access point	570 (Initial inspection result 20 est.)	<10 (Initial inspection result <10)	880 (Initial inspection result 410)
20-13128/ S5	Subfloor (beneath basketball court), on broken timber joist directly below western subfloor access point	80 est. (Initial inspection result 110 est.)	<10 (Initial inspection result <10)	>3000 est. (Initial inspection result 620)
20-13128/ S6	Subfloor (beneath basketball court), on western brick wall	>30000 est. (Initial inspection result 6800)	<10 (Initial inspection result <10)	170 (Initial inspection result 920)
20-13128/ S7	Internal, basketball court (western section), inbetween cracked hardwood timbers	60 est. (Initial inspection result <10)	20 (Initial inspection result <10)	130 est. (Initial inspection result >3000 est.)

Note: est. = Estimated

Discussion:

Initial post-ventilation installation surface swab analysis (Refer to Clearsafe report 20-13128-01-OH conducted on the 10/8/2021) resulted in significant microbial growth counts within all seven (7) initially measured locations (excluding the blank and reference samples), consisting of a combination of mould and bacteria, suggesting the need for further remediation or further investigation.

As a part of a periodical assessment of the basketball court subfloor to assess potential change in microbial climate, the aforementioned areas were re-swabbed for comparative analysis. Results again detected the presence of bacteria and/or mould and/or yeast within each of the seven (7) sampled locations in significantly high amounts.

Whilst microbial results varied considerably between the initial post-ventilation installation inspection and the current investigation, in both cases microbial levels were significantly high.

Consideration should be given to further treatment within the basketball court subfloor to avoid further emergence/mitigate microbial growth in the future.

8 Conclusion

Clearsafe Environmental Solutions Pty Ltd (Clearsafe) was requested by Wollongong City Council (hereafter referred to as 'The Client') to undertake a limited assessment with regard to microbial levels within the subfloor space beneath the basketball court at the Helensburgh Community Centre, 26 Walker Street, Helensburgh NSW 2508. The investigation was commissioned as part of a periodical assessment subsequent to the installation of new ventilation within the basketball court subfloor. The previous investigation on the 10/8/2021 within the basketball court subfloor identified significantly high levels of mould, bacteria and moisture content. Concerns have also been previously raised about the structural integrity of the timber floorboards, joists and bearers and the risk they may present to any occupants within the immediate area. The aim of the current investigation is to assess the current conditions within the subfloor of the building noting any significant change in microbial/moisture readings following the initial inspection post-installation of the ventilation.

Moisture level results for all of the measured timber building materials were slightly above what is considered to be an acceptable limit for hardwood timbers (9-14%), at the time of inspection. Moisture levels for timber surfaces above 9-14% are considered a trigger level for treatment/further assessment. It is noted, however, that four (4) blower dryers were being utilised within the subfloor at the time of the inspection, that of which were not observed during the previous inspection. Whilst moisture readings were slightly above the acceptable limit they have significantly decreased in all measured locations which is likely a direct result of the aforementioned blower dryers. At the time of the inspection, there was also no visible evidence of water ingress and water was not visually observed dripping from the timber flooring surfaces or brick walls, as compared to the previous inspection. This suggests to the inspecting consultant that the blower dryers within the subfloor have been effective in controlling moisture levels within the subfloor. The need for ongoing remediation/treatment and/or further investigation is recommended.

Surface swab analysis results indicate that all sampled locations returned detectable microbial concentrations at levels that suggest significant viable mould and/or bacteria. All sample locations exhibited concentrations above double that of the reference sample, suggesting the need for further testing and/or remedial works.

In conclusion and as per the initial inspections findings, moisture readings in conjunction with surface swab analysis suggests that there is an underlying moisture and microbial growth issue which appears to be present within the entirety of the basketball court subfloor. However, moisture readings have significantly decreased in sampled locations since the previous inspection and locations previously damp to the touch/whereby water was visibly observed dripping from timber surfaces was no longer observed, most likely due to the addition of the blower dryers. Additionally, and as per the initial inspections findings, a visual inspection of the subfloor identified several timber bearers and timber joists that were either partially broken or had completely detached from their former position with evidence of

significant rot. Also, the white powdery substance, which the inspecting consultant is of the belief is most likely efflorescence, was still present on the northern and western brick walls of the subfloor and a musty/damp odour was also present within the subfloor at the time of the inspection. Clearsafe recommends appropriate remediation as part of renovation and ongoing maintenance.

As per the Australian Mould Guidelines, mould damage is classified into a class system based on the extent and visible microbial impacts observed. As the mould damage was visible throughout the entirety of the subfloor beneath the basketball court and is compromising the structural integrity of the timber hardwood floor, the remedial works would be classified as a ***Building Class 4 - Extensive Visible Growth Greater Than 10m2 (Large Job)***.

9 Recommendations

Clearsafe is of the understanding that the Helensburgh Community Centre is to remain closed to the public until such a time that appropriate remediation works are undertaken within the basketball court area. As such, Clearsafe's understanding is that a periodical assessment will be undertaken post-installation of the ventilation to assess potential changes in site conditions. The following recommendations are based on the results of the current assessment which are consistent with previous recommendations and will remain the same unless future assessments demonstrate that site conditions improve significantly.

The following recommendations apply to the microbial remediation works:

- Remediation work should be carried out by professional contractors in accordance with relevant guidelines and in consideration of the following points.
- The work area should not be occupied during cleaning processes.
- Conduct a building inspection by a professional building inspector to investigate the source of the moisture within the subfloor.
- Given the compromised structural integrity of the timber bearers and joists within the subfloor, Clearsafe recommends that access is restricted/limited.
- Clearsafe recommends that access to the basketball court by external parties (outside of companies working on behalf of the current scope of works) is restricted/limited until such time that the structural integrity of the basketball court flooring is assessed and deemed safe by an appropriately qualified/certified building inspector.
- Clearsafe recommends that the original scope of works for removal is reassessed and extended to include the entirety of the timber hardwood floors due to the uniform nature of damage observed throughout the subfloor during the inspection and presence of mould. It is also suggested that further consideration be undertaken in regards to the replacement of the timber bearers and joists within the subfloor.
- As per the Australian Mould Guidelines, mould damage is classified into a class system based on the extent and visible microbial impacts observed. As the mould damage was visible throughout the entirety of the subfloor beneath the basketball court and is compromising the structural integrity of the timber hardwood floor, the remedial works would be classified as a **Building Class 4 - Extensive Visible Growth Greater Than 10m² (Large Job)**. As per these guidelines the area should be restricted and clearly signposted, ground surfaces within the subfloor covered in plastic sheets and HVAC, ventilation and exhaust ducts adequately sealed. A decontamination unit installed at one of the entrances to the basketball court and all

other access points adequately sealed and placed under negative air pressure by using an exhaust fan with a HEPA filter. All timber materials to be disposed of should be wrapped in plastic and the external of the plastic HEPA vacuumed in the decontamination unit prior to removal from the enclosure. PPE should include disposable overalls, gloves, shoe protectors and a full face respirator mask with HEPA filtration with an activated carbon or organic vapour filter.

- Where removal of mould impacted materials is not considered practical, treatment of materials may be considered. Treatment of materials can include application of a professional mould treatment or suitable air or liquid based alternative (such as HEPA filter vacuum cleaning, air washing, ultrasonic cleaning, steam cleaning or low pressure flushing etc.). It is noted that treatment of materials may not always be effective (particularly in-situ materials) and can result in re-emergence of mould. This can occur due to insufficient treatment due to inaccessible areas, insufficient drying of materials, retained moisture etc.
- As per the initial inspection, throughout the course of the inspection fibrous cement fragments suspected of containing asbestos were observed sporadically scattered throughout the subfloor ground surfaces. Clearsafe recommends an emu pick of the ground surfaces, with consideration given to conducting a scrape of 50-100mm of soils within the subfloor. If any material suspected of containing asbestos is identified in the future (outside of that already identified), stop work immediately, restrict access to the impacted area and contact Clearsafe for further advice.
- Post mould remediation works reduce the humidity within the basketball court subfloor by natural or artificial means (desiccant, dehumidifiers, increasing air flow).
- Post mould remediation works, increase natural light levels within the basketball court subfloor where practicable.
- An Occupational Hygiene consultant should be contacted to conduct a final inspection and clearance testing following remediation work.

10 Closure and Contact Information

For any queries relating to this report, please contact Clearsafe on 1300 042 962 or info@clearsafe.com.au.

Clearsafe is pleased to provide our consulting services for this commission.

Kind Regards,



Luke Parkins
Project Consultant



Michael Fernandez
Regional Manager
Certified Environmental Practitioner



APPENDIX A

SITE PHOTOGRAPHS

Photo	Location
	Representative photograph of the basketball court (western section), at the time of the inspection
	Representative photograph of the blower dryers within the basketball court subfloor, at the time of the inspection



Representative photograph of the northern brick wall covered with a white powdery substance, at the time of the inspection



Representative photograph of one of the timber bearers within the basketball court subfloor, at the time of the inspection

APPENDIX B

LABORATORY REPORTS

COA No:	SYD-51646114-0
Supersedes:	None
COA Date:	01/11/2021
Page 1 of 5	

TO:

Clearsafe Environmental Solutions
Clearsafe Environmental Solutions
PO Box 337
UNANDERRA, NSW 2526

Received From:	Unanderra, NSW
Received Date:	27/10/2021

Location of Test: (except where noted)	Regents Park, NSW
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Analytical Results

Desc. 1: ^	20-13128/BL	Sample Number:	456954230		
		Condition Rec'd:	NORMAL		
		Temp Rec'd (°C):	18.0		
		Date Started:	27/10/2021		
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	<10	CFU/swab	M17.2	30/10/2021	
Total Mould Count	<10	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	

Desc. 1: ^	20-13128/Ref	Sample Number: 456954231			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	<10	CFU/swab	M17.2	30/10/2021	
Total Mould Count	<10	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	



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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AU-COA-33 v13

COA No:	SYD-51646114-0
Supersedes:	None
COA Date:	01/11/2021
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TO:

Clearsafe Environmental Solutions
Clearsafe Environmental Solutions
PO Box 337
UNANDERRA, NSW 2526

Received From:	Unanderra, NSW
Received Date:	27/10/2021

Location of Test: (except where noted)	Regents Park, NSW
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Analytical Results

Desc. 1: ^	20-13128/S1	Sample Number: 456954233			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	4100	CFU/swab	M17.2	30/10/2021	
Total Mould Count	>3000 est.	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	

Desc. 1: ^	20-13128/S2	Sample Number: 456954234			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	80 est.	CFU/swab	M17.2	30/10/2021	
Total Mould Count	>3000 est.	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	



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AU-COA-33 v13

COA No:	SYD-51646114-0
Supersedes:	None
COA Date:	01/11/2021
Page 3 of 5	

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Clearsafe Environmental Solutions
PO Box 337
UNANDERRA, NSW 2526

Received From:	Unanderra, NSW
Received Date:	27/10/2021

Location of Test: (except where noted)	Regents Park, NSW
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Analytical Results

Desc. 1: ^	20-13128/S3	Sample Number: 456954235			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	90 est.	CFU/swab	M17.2	30/10/2021	
Total Mould Count	260	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	

Desc. 1: ^	20-13128/S4	Sample Number: 456954236			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	570	CFU/swab	M17.2	30/10/2021	
Total Mould Count	880	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	



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
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AU-COA-33 v13

COA No:	SYD-51646114-0
Supersedes:	None
COA Date:	01/11/2021
Page 4 of 5	

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Clearsafe Environmental Solutions
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PO Box 337
UNANDERRA, NSW 2526

Received From:	Unanderra, NSW
Received Date:	27/10/2021

Location of Test: (except where noted)	Regents Park, NSW
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Analytical Results

Desc. 1: ^	20-13128/S5	Sample Number:	456954237		
		Condition Rec'd:	NORMAL		
		Temp Rec'd (°C):	18.0		
		Date Started:	27/10/2021		
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	80 est.	CFU/swab	M17.2	30/10/2021	
Total Mould Count	>3000 est.	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	

Desc. 1: ^	20-13128/S6	Sample Number: 456954238			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	>30000 est.	CFU/swab	M17.2	30/10/2021	
Total Mould Count	170	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	<10	CFU/swab	M17.2	01/11/2021	



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:	SYD-51646114-0
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PO Box 337
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Received From:	Unanderra, NSW
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Location of Test: (except where noted)	Regents Park, NSW
--	-------------------

Analytical Results

Desc. 1: ^	20-13128/S7	Sample Number: 456954239			
		Condition Rec'd: NORMAL			
		Temp Rec'd (°C): 18.0			
		Date Started: 27/10/2021			
		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	60 est.	CFU/swab	M17.2	30/10/2021	
Total Mould Count	130 est.	CFU/swab	M17.2	01/11/2021	
Total Yeast Count	20	CFU/swab	M17.2	01/11/2021	



IMTIAZ AHMED
LABORATORY MANAGER

MXNS Abbreviations/Definitions:

| <: Less Than | >: Greater Than | CFU: Colony Forming Units | D: Detected | ND: Not Detected | MPN: Most Probable Number | LOR: Level of Reporting | LOD: Level of Detection |
| LOQ: Limit of Quantification | est.: Estimate | R: Retest | PN: Probable Number |



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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^ Customer supplied information

The data pertains solely to the analytical and sampling procedure(s) used and the condition and homogeneity of the sample(s). 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

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