

TEST REPORT

CLIENT DETAILS

Contact EDMUND LEI
 Client INTEGRAL CONSULTING LTD
 Address AVENIDA AMIZADE. NO. 918,
 WORLD TRADE CENTRE BUILDING,
 7 ANDAR B, C, MACAU

Telephone 853 2881 1999
 Facsimile 853 2881 0202
 Email EDMUND.LEI@INTEGRAL.COM.MO
 Order Number -
 Samples Air (4)
 Project Default Project

LABORATORY DETAILS

Manager SGS HONG KONG LIMITED
 Laboratory ENVIRONMENTAL SERVICE
 Address 1/F, 4/F, 5/F & UNIT 301-4, 307-11, 3/F, ON
 WUI CENTRE, 25 LOK YIP ROAD, FANLING,
 N.T.

Telephone 852 2774 7177
 Facsimile 852 2334 2461
 Email -
 Report Number HKIEQ15-00121 R0
 SGS Reference -
 Date Reported 2015/09/23

COMMENTS

SIGNATORIES



WING YAN CHAN
 Laboratory Executive

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Sample Number	Sample Location	Sampling Date	Test Required
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Sampling Site Information

MACAO SCIENCE CENTER, AVENIDA DR. SUN YAT-SEN, MACAU

HKIEQ15-00121.001	Conference Room 3-4	17-18 August 2015	Temperature Relative Humidity Air Movement Carbon Monoxide Carbon Dioxide Respirable Suspended Particulates Particulate Matter (PM 2.5) Nitrogen Dioxide Ozone Formaldehyde Total Volatile Organic Compound Total Bacteria Count Yeast & Mould Radon
HKIEQ15-00121.002	Concourse		
HKIEQ15-00121.003	1/F Exhibition Centre		
HKIEQ15-00121.004	Planetarium		

Test Method

Air Movement:	VelociCal 9545-A or Compuflow Thermo-anemometer 8585-M
Total Bacteria Count:	TSA Medium with Incubation 30°C 48 Hours
Relative Humidity:	TSI IAQCalc 7545
Room Temperature:	TSI IAQCalc 7545
Carbon Dioxide :	TSI IAQCalc 7545
Carbon Monoxide:	TSI IAQCalc 7545
Respirable Suspended Particulates :	TSI DustTrak Aerosol/Dust 8520 or 8532
Particulate Matter (PM 2.5):	TSI DustTrak Aerosol/Dust 8520 or 8532
Formaldehyde (HCHO):	USEPA TO-11A, HPLC
Nitrogen Dioxide (NO ₂):	The Ogawa Passive Sampler
Ozone (O ₃):	AeroQUAL Series 500 or Ozone meter Model Z-1200XP
Total Volatile Organic Compound:	ppbRAE 3000 Parts per Billion VOC Monitor
Yeast & Mould:	PDA Medium with incubation 25 °C 5 Days
Radon (Rn):	Sun Nuclear Model #1030 Radon Monitor or NITON Professional meter (model no : RAD 7)

IAQ Objectives (FOR REFERENCE ONLY**)

	Temperature	Relative Humidity	Air Movement	Carbon Dioxide	Carbon Monoxide	Respirable Suspended Particulates	Nitrogen Dioxide	Ozone	Formaldehyde	Total Volatile Organic Compound	Radon	Total Bacteria Count	Particulate Matter (PM2.5)	Yeast & Mould
Unit	°C	%	m/s	ppm	ppm	µg/m ³	µg/m ³	ppb	µg/m ³	µg/m ³	Bq/m ³	cfu/m ³	µg/m ³	cfu/m ³
Good Class	<25.5	<70	<0.3	<1000	<8.7	<180	<150	<61	<100	<600	<200	<1000	N/A	N/A

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Sample ID	Sampling Location	Sample Matrix Unit LOR	Temperature Air °C -	Relative Humidity Air % -	Air Movement Air m/s -
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HKIEQ15-00121.001	Conference Room 3-4	-	22	59	0.03
HKIEQ15-00121.002	Concourse	-	28	58	0.04
HKIEQ15-00121.003	1/F Exhibition Centre	-	23	64	0.18
HKIEQ15-00121.004	Planetarium	-	24	52	0.06

Sample ID	Sampling Location	Sample Matrix Unit LOR	Carbon Dioxide (CO ₂) Air ppm -	Carbon Monoxide (CO) Air ppm -	Respirable Suspended Particulate (RSP) Air µg/m ³ -
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HKIEQ15-00121.001	Conference Room 3-4	-	440	0	11
HKIEQ15-00121.002	Concourse	-	600	0	14
HKIEQ15-00121.003	1/F Exhibition Centre	-	790	0	12
HKIEQ15-00121.004	Planetarium	-	470	0	6.4

Sample ID	Sampling Location	Sample Matrix Unit LOR	Particulate Matter (PM 2.5) Air µg/m ³ -	Nitrogen Dioxide (NO ₂) Air µg/m ³ -	Ozone (O ₃) Air ppb -
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HKIEQ15-00121.001	Conference Room 3-4	-	6	83	3.3
HKIEQ15-00121.002	Concourse	-	11	91	14
HKIEQ15-00121.003	1/F Exhibition Centre	-	2.3	120	9
HKIEQ15-00121.004	Planetarium	-	5.7	97	26

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Sample ID	Sampling Location	Sample Matrix Unit LOR	Formaldehyde (HCHO) Air µg/m³ -	Total Volatile Organic Compound (TVOC) Air µg/m³ -	Total Bacteria Count (TBC) Air cfu/m³ -
HKIEQ15-00121.001	Conference Room 3-4	-	23	200	220
HKIEQ15-00121.002	Concourse	-	5.2	990	TNTC
HKIEQ15-00121.003	1/F Exhibition Centre	-	35	500	420
HKIEQ15-00121.004	Planetarium	-	17	14	110

Sample ID	Sampling Location	Sample Matrix Unit LOR	Yeast & Mould (Y&M) Air cfu/m³ -	Radon (Rd) Air Bq/m³ -
HKIEQ15-00121.001	Conference Room 3-4	-	4.8	0
HKIEQ15-00121.002	Concourse	-	22	6.2
HKIEQ15-00121.003	1/F Exhibition Centre	-	16	36
HKIEQ15-00121.004	Planetarium	-	18	9.6

Notes:

- 1) Sampling address: Macao Science Center, Avenida Dr. Sun Yat-Sen, Macau
- 2) Sampling dates: 17-18 August 2015

*** End of Report **

FOOTNOTES

CFU Colony forming unit
LOR Limit of Reporting

Sample analyzed as received

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