

ผลการตรวจวัดคุณภาพอากาศภายนอกอาคาร



Report No. : 2024-500002681/ 002 (Page 1 of 7) Issued date: October 21, 2024

CLIENT : GRANDE ASSET HOTELS AND PROPERTY PUBLIC COMPANY LIMITED
CONTACT : Khun Pkhin Sriwichai
ADDRESS : 1 Soi Sukhumvit 13 (Sang Chan), Sukhumvit Road, Klongtoey Nue, Wattana, Bangkok 10110
Tel. 091-868-8054 Email: pkhin.sriwichai@hyatt.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : October 11-12, 2024
SAMPLING BY : Weerapong Pengtrakul

Date	Parameters		
	TSP (mg/m ³)	PM-10 (mg/m ³)	THC (ppm)
October 11-12, 2024	0.048	0.040	2.61
Standard*	0.33	0.12	-

Source: * The notification of the National Environment Board No.24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004)



Thepsan
(Thepsan Yommana)
Technical Manager

TY/WP/SRC/SRC



Report No. : 2024-500002681/ 002 (Page 2 of 7) Issued date: October 21, 2024

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Date	Time	NO ₂ Concentration (ppm)
11/10/2024	10:00-11:00	0.002
11/10/2024	11:00-12:00	0.006
11/10/2024	12:00-13:00	0.001
11/10/2024	13:00-14:00	0.002
11/10/2024	14:00-15:00	0.001
11/10/2024	15:00-16:00	0.001
11/10/2024	16:00-17:00	0.001
11/10/2024	17:00-18:00	0.001
11/10/2024	18:00-19:00	0.001
11/10/2024	19:00-20:00	0.001
11/10/2024	20:00-21:00	0.001
11/10/2024	21:00-22:00	0.002
11/10/2024	22:00-23:00	0.003
11/10/2024	23:00-00:00	0.002
12/10/2024	00:00-01:00	0.002
12/10/2024	01:00-02:00	0.001
12/10/2024	02:00-03:00	0.002
12/10/2024	03:00-04:00	0.002
12/10/2024	04:00-05:00	0.003
12/10/2024	05:00-06:00	0.002
12/10/2024	06:00-07:00	0.003
12/10/2024	07:00-08:00	0.001
12/10/2024	08:00-09:00	0.003
12/10/2024	09:00-00:00	0.002
1 hr-Minimum		0.001
1 hr-Maximum		0.006
Standard* (avg. 1 hr)		0.17

Analytical Method : - Chemiluminescence Method
Source : * The notification of the National Environment Board No.33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

SGS (THAILAND) LIMITED

TY/WP/SRC/SRC

Thepsan Y.
(Thepsan Yommana)
Technical Manager

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LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : October 11-12, 2024
SAMPLING BY : Weerapong Pengtrakul

Date	Time	SO ₂ Concentration (ppm)
11/10/2024	10:00-11:00	0.005
11/10/2024	11:00-12:00	0.006
11/10/2024	12:00-13:00	0.015
11/10/2024	13:00-14:00	0.025
11/10/2024	14:00-15:00	0.029
11/10/2024	15:00-16:00	0.029
11/10/2024	16:00-17:00	0.024
11/10/2024	17:00-18:00	0.022
11/10/2024	18:00-19:00	0.021
11/10/2024	19:00-20:00	0.019
11/10/2024	20:00-21:00	0.018
11/10/2024	21:00-22:00	0.016
11/10/2024	22:00-23:00	0.015
11/10/2024	23:00-00:00	0.014
12/10/2024	00:00-01:00	0.013
12/10/2024	01:00-02:00	0.012
12/10/2024	02:00-03:00	0.012
12/10/2024	03:00-04:00	0.011
12/10/2024	04:00-05:00	0.011
12/10/2024	05:00-06:00	0.011
12/10/2024	06:00-07:00	0.010
12/10/2024	07:00-08:00	0.012
12/10/2024	08:00-09:00	0.013
12/10/2024	09:00-00:00	0.014
1 hr-Minimum		0.005
1 hr-Maximum		0.029
Avg. 24 hrs		0.016
Standard* (avg. 1 hr)		0.30
Standard** (avg. 24 hrs)		0.12

Analytical Method :

Sources :

- UV Fluorescence Method
- * The notification of the National Environment Board No.21, B.E. 2544 (2001), subjected "The sulfur dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39D, dated April 30, B.E. 2544 (2001).
- ** The notification of the National Environment Board No.24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004)

SGS (THAILAND) LIMITED

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Thepsan
(Thepsan Yommana)
Technical Manager

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LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : October 11-12, 2024
SAMPLING BY : Weerapong Pengtrakul

Date	Time	CO Concentration (ppm)
11/10/2024	10:00-11:00	1.396
11/10/2024	11:00-12:00	3.194
11/10/2024	12:00-13:00	3.682
11/10/2024	13:00-14:00	4.244
11/10/2024	14:00-15:00	4.442
11/10/2024	15:00-16:00	4.088
11/10/2024	16:00-17:00	3.696
11/10/2024	17:00-18:00	3.485
11/10/2024	18:00-19:00	3.225
11/10/2024	19:00-20:00	3.308
11/10/2024	20:00-21:00	3.168
11/10/2024	21:00-22:00	2.856
11/10/2024	22:00-23:00	2.766
11/10/2024	23:00-00:00	2.908
12/10/2024	00:00-01:00	2.859
12/10/2024	01:00-02:00	3.002
12/10/2024	02:00-03:00	2.806
12/10/2024	03:00-04:00	2.833
12/10/2024	04:00-05:00	2.752
12/10/2024	05:00-06:00	2.588
12/10/2024	06:00-07:00	2.526
12/10/2024	07:00-08:00	2.575
12/10/2024	08:00-09:00	2.624
12/10/2024	09:00-00:00	2.763
1 hr-Minimum		1.396
1 hr-Maximum		4.442
Avg. 8 hrs	00:00-08:00	2.743
	08:00-16:00	3.304
	16:00-00:00	3.177
Standard* (avg. 8 hrs)		9
Standard* (avg. 1 hr)		30

Analytical Method : Non-Dispersive Infrared (NDIR) Method.
Source : Notification of the National Environment Board No.10, B.E.2538 (1995), dated April 17, B.E.2538 (1995).



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SAMPLING BY : Weerapong Pengtrakul

Date	Time	December 8-9, 2023	
		WD	WS (m/s)
11/10/2024	10:00-11:00	-	Calm
11/10/2024	11:00-12:00	-	Calm
11/10/2024	12:00-13:00	-	Calm
11/10/2024	13:00-14:00	SSW	0.9
11/10/2024	14:00-15:00	-	Calm
11/10/2024	15:00-16:00	-	Calm
11/10/2024	16:00-17:00	SSW	0.9
11/10/2024	17:00-18:00	-	Calm
11/10/2024	18:00-19:00	-	Calm
11/10/2024	19:00-20:00	-	Calm
11/10/2024	20:00-21:00	NNE	0.9
11/10/2024	21:00-22:00	-	Calm
11/10/2024	22:00-23:00	-	Calm
11/10/2024	23:00-00:00	-	Calm
12/10/2024	00:00-01:00	S	0.9
12/10/2024	01:00-02:00	-	Calm
12/10/2024	02:00-03:00	-	Calm
12/10/2024	03:00-04:00	NE	0.9
12/10/2024	04:00-05:00	NE	0.9
12/10/2024	05:00-06:00	-	Calm
12/10/2024	06:00-07:00	-	Calm
12/10/2024	07:00-08:00	-	Calm
12/10/2024	08:00-09:00	-	Calm
12/10/2024	09:00-00:00	-	Calm

Measurement Method : - Wind speed and direction recording meter
Remarks : - WS = Wind Speed
- WD = Wind Direction

Thepsan Y.
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Wind Direction	Wind Speed	Percent of Wind Speed (%)				
		0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N		-	-	-	-	-
NNE		4.17	-	-	-	-
NE		8.33	-	-	-	-
ENE		-	-	-	-	-
E		-	-	-	-	-
ESE		-	-	-	-	-
SE		-	-	-	-	-
SSE		-	-	-	-	-
S		4.17	-	-	-	-
SSW		8.33	-	-	-	-
SW		-	-	-	-	-
WSW		-	-	-	-	-
W		-	-	-	-	-
WNW		-	-	-	-	-
NW		-	-	-	-	-
NNW		-	-	-	-	-
CALM		75.00				

Measurement Method : - Wind speed and direction recording meter
Remarks : - WS = Wind Speed
- WD = Wind Direction

SGS (THAILAND) LIMITED

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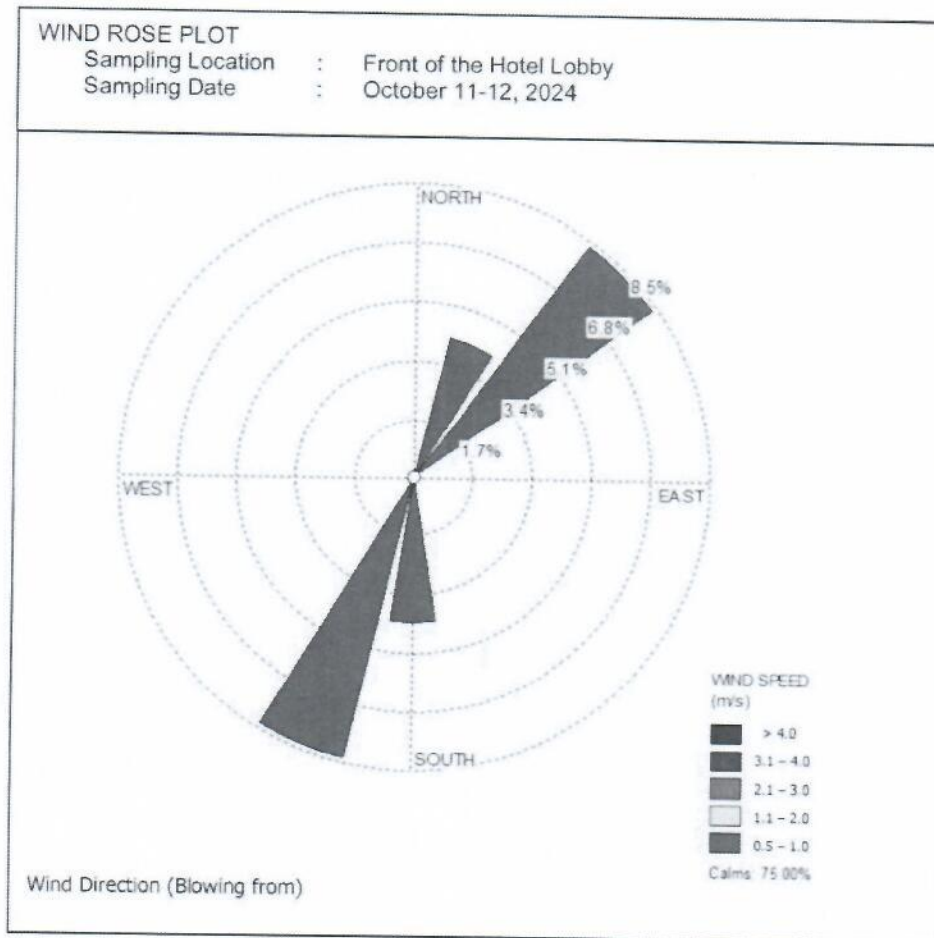
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