

## ภาคผนวก

ภาคผนวก ก หนังสือรับรองผลการตรวจวิเคราะห์

ภาคผนวก ข - สำเนาหนังสือรับรองห้องปฏิบัติการวิเคราะห์เอกชน  
บริษัท เอสจีเอส (ประเทศไทย) จำกัด  
- สำเนาใบรับรองมาตรฐาน ISO 9001/2015

ภาคผนวก ค สำเนาใบรับรองการสอบเทียบเครื่องมือ

ภาคผนวก ก

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หนังสือรับรองผลการตรวจวิเคราะห์

# คุณภาพอากาศในบรรยากาศ

**Report No.** : 2024-500001316-1 / 001-1 (Page 1 of 6)

**Issued date** : May 30, 2024

**CLIENT** : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT** : Khun Chayakorn Sukontrakun  
**ADDRESS** : 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Air Quality

**MEASUREMENT DATE** : May 9-12, 2024

**MEASUREMENT LOCATION** : วัดหนองชุมแสง

**MEASURED BY** : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Station	Date	TSP (mg/m <sup>3</sup> )	PM10 (mg/m <sup>3</sup> )
วัดหนองชุมแสง	May 9-10, 2024	0.070	0.036
	May 10-11, 2024	0.045	0.025
	May 11-12, 2024	0.041	0.018
Standard <sup>1/</sup>		0.33	0.12

**Remark :** - Sampling and analytical technique for TSP and PM10 based on High Volume Air Sampler / Size Selective High Volume Air Sampler.

**Source :** <sup>1/</sup> Notification of the National Environmental Board No. 24, B.E. 2547 (2004), which was published in the Royal Government Gazette No. 121 Special Part 104 D dated September 22, B.E.2547 (2004).

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Technical Manager

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E 282620



**Report No.** : 2024-500001316-1 / 001-1 (Page 2 of 6) **Issued date** : May 30, 2024  
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## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Air Quality **MEASUREMENT DATE** : May 9-12, 2024  
**MEASUREMENT LOCATION** : วัดหนองชุมแสง **MEASURED BY** : Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Time	NO <sub>2</sub> Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.009	0.007	0.007
01:00-02:00	0.007	0.004	0.005
02:00-03:00	0.004	0.009	0.006
03:00-04:00	0.007	0.006	0.009
04:00-05:00	0.005	0.002	0.009
05:00-06:00	0.005	0.005	0.006
06:00-07:00	0.008	0.007	0.008
07:00-08:00	0.005	0.007	0.002
08:00-09:00	0.004	0.004	0.006
09:00-10:00	0.008	0.009	0.007
10:00-11:00	0.007	0.002	0.002
11:00-12:00	0.009	0.005	0.005
12:00-13:00	0.004	0.005	0.008
13:00-14:00	0.006	0.003	0.004
14:00-15:00	0.009	0.002	0.004
15:00-16:00	0.006	0.005	0.006
16:00-17:00	0.009	0.004	0.005
17:00-18:00	0.007	0.005	0.003
18:00-19:00	0.004	0.009	0.006
19:00-20:00	0.008	0.002	0.004
20:00-21:00	0.006	0.002	0.008
21:00-22:00	0.007	0.006	0.004
22:00-23:00	0.007	0.002	0.008
23:00-00:00	0.001	0.004	0.005
1 hr-Minimum	0.001	0.002	0.002
1 hr-Maximum	0.009	0.009	0.009
Avg. 24 hr	0.006	0.005	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).

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(Thaseephet Kittikhun)  
 Technical Manager

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**Report No.** : 2024-500001316-1 / 001-1 (Page 5 of 6) **Issued date** : May 30, 2024  
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## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Air Quality **MEASUREMENT DATE** : May 9-12, 2024  
**MEASUREMENT LOCATION** : วัดหนองชุมแสง **MEASURED BY** : Kittikhun Thaseephet  
Sukhothai Airport, Sukhothai Province

Wind Speed Wind Direction	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	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	2.78	-	-	-	-
SSE	4.17	5.56	-	-	-
S	4.17	5.56	1.39	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	1.39	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
<b>CALM</b>	<b>70.83</b>				



Technical Manager

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E 282243



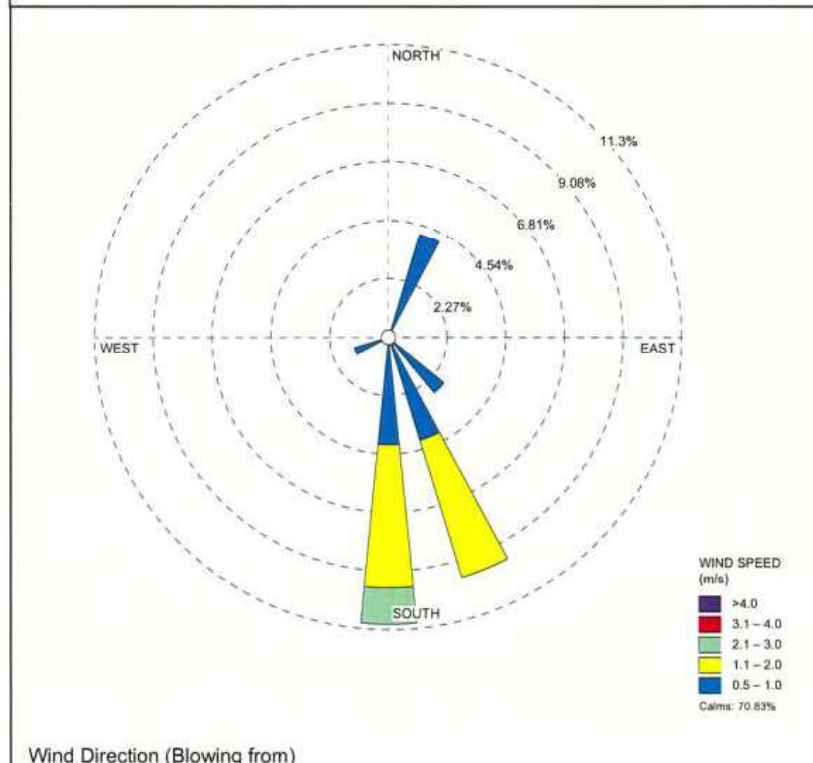
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## Analysis Report

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**MEASUREMENT LOCATION** : วัดหนองชุมแสง **MEASURED BY** : Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

### WIND ROSE PLOT

**Measurement Location** : วัดหนองชุมแสง  
**Measurement Date** : May 9-12, 2024



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E 282244

**Report No. : 2024-500001316-1 / 001-2 (Page 1 of 6)**

**Issued date : May 30, 2024**

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 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** โรงเรียนวัดไทรย้อย

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Station	Date	TSP (mg/m <sup>3</sup> )	PM10 (mg/m <sup>3</sup> )
โรงเรียนวัดไทรย้อย	May 9-10, 2024	0.084	0.043
	May 10-11, 2024	0.046	0.028
	May 11-12, 2024	0.050	0.018
<b>Standard<sup>1/</sup></b>		<b>0.33</b>	<b>0.12</b>

**Remark :** - Sampling and analytical technique for TSP and PM10 based on High Volume Air Sampler / Size Selective High Volume Air Sampler.

**Source :** <sup>1/</sup> Notification of the National Environmental Board No. 24, B.E. 2547 (2004), which was published in the Royal Government Gazette No. 121 Special Part 104 D dated September 22, B.E.2547 (2004).

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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** โรงเรียนวัดไพรน้อย **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Time	NO <sub>2</sub> Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.004	0.004	0.004
01:00-02:00	0.003	0.005	0.002
02:00-03:00	0.005	0.004	0.003
03:00-04:00	0.007	0.006	0.005
04:00-05:00	0.007	0.007	0.005
05:00-06:00	0.006	0.006	0.003
06:00-07:00	0.004	0.004	0.005
07:00-08:00	0.002	0.004	0.003
08:00-09:00	0.002	0.004	0.003
09:00-10:00	0.001	0.004	0.004
10:00-11:00	0.001	0.004	0.004
11:00-12:00	0.002	0.003	0.002
12:00-13:00	0.002	0.003	0.004
13:00-14:00	0.003	0.003	0.005
14:00-15:00	0.004	0.005	0.004
15:00-16:00	0.003	0.002	0.003
16:00-17:00	0.003	0.003	0.003
17:00-18:00	0.004	0.001	0.003
18:00-19:00	0.003	0.004	0.002
19:00-20:00	0.003	0.004	0.002
20:00-21:00	0.007	0.001	0.004
21:00-22:00	0.003	0.003	0.003
22:00-23:00	0.004	0.003	0.004
23:00-00:00	0.005	0.003	0.004
1 hr-Minimum	0.001	0.001	0.002
1 hr-Maximum	0.007	0.007	0.005
Avg. 24 hr	0.004	0.004	0.003
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).



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**SAMPLE DESIGNATED AS :** Ambient Air Quality

**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** โรงเรียนวัดไทรย้อย

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Time	CO Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.648	0.759	0.375
01:00-02:00	0.546	0.986	0.466
02:00-03:00	0.952	0.742	0.878
03:00-04:00	0.718	0.629	0.646
04:00-05:00	0.931	0.581	0.558
05:00-06:00	0.637	0.741	0.391
06:00-07:00	0.809	0.861	0.764
07:00-08:00	0.534	0.950	0.764
08:00-09:00	0.633	0.906	0.548
09:00-10:00	1.076	0.907	0.907
10:00-11:00	0.877	0.817	0.623
11:00-12:00	0.527	0.913	0.506
12:00-13:00	0.573	0.762	0.440
13:00-14:00	0.703	0.702	0.655
14:00-15:00	0.764	0.649	0.622
15:00-16:00	0.840	0.951	1.054
16:00-17:00	0.633	0.721	0.575
17:00-18:00	0.756	0.878	0.379
18:00-19:00	0.983	0.585	0.907
19:00-20:00	0.704	0.926	0.849
20:00-21:00	0.794	0.902	0.330
21:00-22:00	0.480	0.932	0.737
22:00-23:00	1.047	0.814	0.928
23:00-00:00	0.586	0.559	0.439
1 hr-Minimum	0.480	0.559	0.330
1 hr-Maximum	1.076	0.986	1.054
Avg. 8 hrs	00:00-08:00	0.722	0.781
	08:00-16:00	0.749	0.826
	16:00-00:00	0.748	0.790
Standard* (avg. 1 hrs)		30	
Standard* (avg. 8 hr)		9	

**Analytical Method :** - UV Fluorescence Method.

**Sources :** \* The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 71D, dated September 5, B.E. 2538 (1995)



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**Report No. : 2024-500001316-1 / 001-2 (Page 4 of 6)**

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**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** โรงเรียนวัดไทรย้อย

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

TIME	May 10, 2024		May 11, 2024		May 12, 2024	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	S	1.3	SSW	0.9	-	Calm
01:00-02:00	S	2.2	-	Calm	-	Calm
02:00-03:00	SSW	1.8	-	Calm	-	Calm
03:00-04:00	-	Calm	ENE	0.9	-	Calm
04:00-05:00	-	Calm	ENE	0.9	-	Calm
05:00-06:00	-	Calm	-	Calm	-	Calm
06:00-07:00	-	Calm	-	Calm	-	Calm
07:00-08:00	-	Calm	-	Calm	-	Calm
08:00-09:00	ENE	0.9	-	Calm	-	Calm
09:00-10:00	ENE	0.9	-	Calm	WNW	0.9
10:00-11:00	E	0.9	-	Calm	WNW	0.9
11:00-12:00	ESE	0.9	SSW	0.9	WNW	0.9
12:00-13:00	SSW	1.3	WSW	0.9	W	0.9
13:00-14:00	ESE	0.9	NE	0.9	WNW	0.9
14:00-15:00	SE	0.9	SSW	0.9	SSW	1.3
15:00-16:00	SSW	0.9	SSW	0.9	ESE	0.9
16:00-17:00	SSW	0.9	WSW	0.9	E	0.9
17:00-18:00	SSW	1.3	W	0.9	SW	0.9
18:00-19:00	W	1.3	ESE	1.8	-	Calm
19:00-20:00	-	Calm	W	0.9	-	Calm
20:00-21:00	-	Calm	SSW	0.9	-	Calm
21:00-22:00	-	Calm	-	Calm	-	Calm
22:00-23:00	SE	0.9	S	0.9	-	Calm
23:00-00:00	-	Calm	-	Calm	-	Calm

**Measurement Method :** - Wind Speed and Wind Direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction



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E 282627



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## Analysis Report

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**MEASUREMENT LOCATION** : โรงเรียนวัดไพรน้อย **MEASURED BY** : Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Wind Speed Wind Direction	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	-	-	-	-	-
NE	1.39	-	-	-	-
ENE	5.56	-	-	-	-
E	2.78	-	-	-	-
ESE	4.17	1.39	-	-	-
SE	2.78	-	-	-	-
SSE	-	-	-	-	-
S	1.39	1.39	1.39	-	-
SSW	9.72	5.56	-	-	-
SW	1.39	-	-	-	-
WSW	2.78	-	-	-	-
W	4.17	1.39	-	-	-
WNW	5.56	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	47.22				

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SGS (THAILAND) LIMITED



Technical Manager

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E 282249

**Report No.** : 2024-500001316-1 / 001-2 (Page 6 of 6)

**Issued date** : May 30, 2024

**CLIENT** : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT** : Khun Chayakorn Sukontrakun  
**ADDRESS** : 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Air Quality

**MEASUREMENT DATE** : May 9-12, 2024

**MEASUREMENT LOCATION** : โรงเรียนวัดไทรย้อย

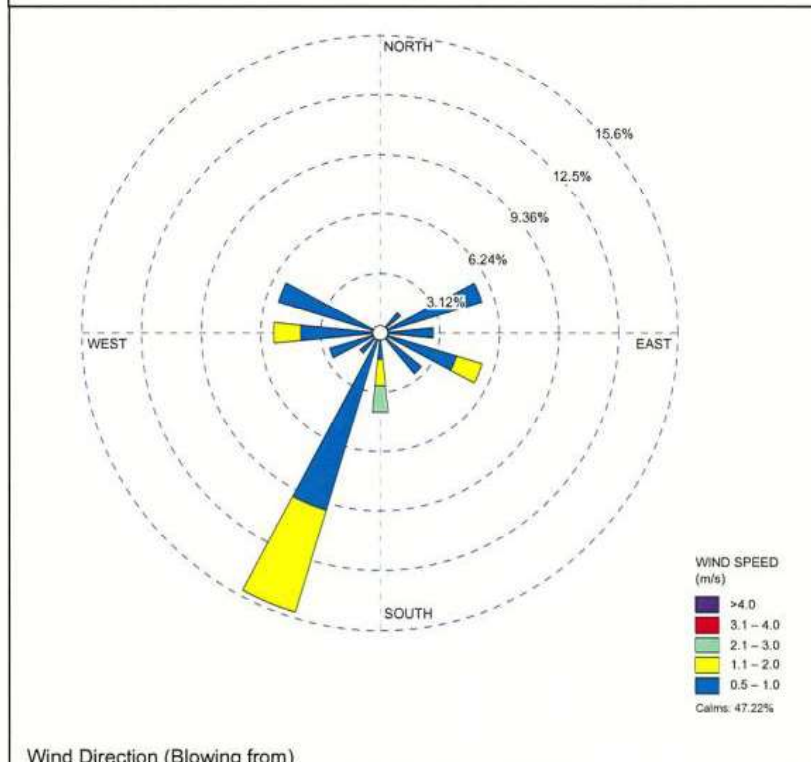
**MEASURED BY** : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

### WIND ROSE PLOT

**Measurement Location** : โรงเรียนวัดไทรย้อย

**Measurement Date** : May 9-12, 2024



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**Report No. : 2024-500001316-1 / 001-3 (Page 1 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Station	Date	TSP (mg/m <sup>3</sup> )	PM10 (mg/m <sup>3</sup> )
โรงพยาบาลส่งเสริมสุขภาพ ตำบลท่าทอง	May 9-10, 2024	0.050	0.037
	May 10-11, 2024	0.041	0.028
	May 11-12, 2024	0.042	0.018
<b>Standard<sup>1/</sup></b>		<b>0.33</b>	<b>0.12</b>

**Remark :** - Sampling and analytical technique for TSP and PM10 based on High Volume Air Sampler / Size Selective High Volume Air Sampler.  
**Source :** <sup>1/</sup> Notification of the National Environmental Board No. 24, B.E. 2547 (2004), which was published in the Royal Government Gazette No. 121 Special Part 104 D dated September 22, B.E.2547 (2004).

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**Report No.** : 2024-500001316-1 / 001-3 (Page 2 of 6)

**Issued date** : May 30, 2024

**CLIENT** : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT** : Khun Chayakorn Sukontrakun  
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 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Air Quality **MEASUREMENT DATE** : May 9-12, 2024  
**MEASUREMENT LOCATION** : โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง **MEASURED BY** : Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Time	NO <sub>2</sub> Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.006	0.003	0.001
01:00-02:00	0.002	0.004	0.008
02:00-03:00	0.005	0.005	0.003
03:00-04:00	0.003	0.003	0.006
04:00-05:00	0.005	0.002	0.003
05:00-06:00	0.007	0.004	0.001
06:00-07:00	0.006	0.004	0.006
07:00-08:00	0.003	0.007	0.005
08:00-09:00	0.004	0.002	0.002
09:00-10:00	0.004	0.002	0.007
10:00-11:00	0.004	0.006	0.006
11:00-12:00	0.005	0.007	0.005
12:00-13:00	0.005	0.003	0.009
13:00-14:00	0.005	0.008	0.008
14:00-15:00	0.006	0.007	0.003
15:00-16:00	0.003	0.007	0.008
16:00-17:00	0.003	0.005	0.002
17:00-18:00	0.006	0.005	0.006
18:00-19:00	0.006	0.005	0.008
19:00-20:00	0.007	0.006	0.004
20:00-21:00	0.003	0.004	0.007
21:00-22:00	0.004	0.004	0.003
22:00-23:00	0.007	0.006	0.005
23:00-00:00	0.004	0.003	0.002
1 hr-Minimum	0.002	0.002	0.001
1 hr-Maximum	0.007	0.008	0.009
Avg. 24 hr	0.005	0.005	0.005
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).



Technical Manager

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E 282629

**Report No. : 2024-500001316-1 / 001-3 (Page 3 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Time	CO Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	1.010	0.986	0.963
01:00-02:00	0.978	1.029	0.962
02:00-03:00	0.966	0.980	0.963
03:00-04:00	0.972	0.989	0.987
04:00-05:00	0.982	0.992	0.993
05:00-06:00	1.009	0.987	1.009
06:00-07:00	1.022	0.998	1.007
07:00-08:00	1.038	1.010	1.057
08:00-09:00	1.033	1.013	1.012
09:00-10:00	1.016	1.041	1.013
10:00-11:00	1.014	1.047	1.079
11:00-12:00	1.001	1.107	1.022
12:00-13:00	1.017	1.013	1.049
13:00-14:00	1.011	1.061	1.078
14:00-15:00	1.008	1.102	1.083
15:00-16:00	1.015	1.092	1.076
16:00-17:00	1.032	1.020	1.104
17:00-18:00	1.041	1.038	1.087
18:00-19:00	1.040	0.958	1.107
19:00-20:00	1.076	1.063	1.186
20:00-21:00	1.181	1.066	1.198
21:00-22:00	1.192	1.041	1.235
22:00-23:00	1.061	0.993	1.209
23:00-00:00	1.004	0.963	1.260
1 hr-Minimum	0.966	0.958	0.962
1 hr-Maximum	1.192	1.107	1.260
Avg. 8 hrs	00:00-08:00	0.997	0.996
	08:00-16:00	1.014	1.060
	16:00-00:00	1.078	1.173
Standard* (avg. 1 hrs)		30	
Standard* (avg. 8 hr)		9	

**Analytical Method :** - UV Fluorescence Method.

**Sources :** \* The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 71D, dated September 5, B.E. 2538 (1995)



Technical Manager

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E 282630



**Report No. : 2024-500001316-1 / 001-3 (Page 4 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

TIME	May 10, 2024		May 11, 2024		May 12, 2024	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	Calm	WSW	3.6	ENE	4.0
01:00-02:00	SSW	3.1	ENE	4.5	ENE	3.6
02:00-03:00	SW	4.0	E	2.2	ENE	6.3
03:00-04:00	SE	4.5	S	2.7	ENE	3.1
04:00-05:00	NE	4.0	SE	0.9	NE	1.8
05:00-06:00	E	3.1	-	Calm	ENE	1.8
06:00-07:00	E	3.1	-	Calm	E	2.7
07:00-08:00	E	1.3	-	Calm	E	4.5
08:00-09:00	ESE	0.9	SE	4.5	E	3.1
09:00-10:00	-	Calm	SE	8.0	WSW	4.0
10:00-11:00	E	0.9	SE	9.8	E	2.7
11:00-12:00	ESE	1.8	E	5.8	S	2.7
12:00-13:00	ENE	0.9	SE	2.7	SW	3.6
13:00-14:00	NNW	0.9	W	1.8	E	2.7
14:00-15:00	ENE	1.3	SW	2.2	ESE	3.6
15:00-16:00	SSW	0.9	SSW	0.9	E	2.7
16:00-17:00	W	0.9	WNW	1.8	SE	2.7
17:00-18:00	S	2.2	S	2.7	E	2.7
18:00-19:00	SSW	3.1	SSW	2.7	E	3.1
19:00-20:00	SSW	6.7	ESE	3.1	SSW	2.7
20:00-21:00	W	8.0	SE	3.6	SE	2.7
21:00-22:00	S	6.7	E	3.6	SSW	3.1
22:00-23:00	ENE	5.4	ENE	3.1	ESE	3.1
23:00-00:00	WSW	4.0	ENE	3.6	NW	3.6

**Measurement Method :** - Wind Speed and Wind Direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction



Technical Manager

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E 282631



**Report No. : 2024-500001316-1 / 001-3 (Page 5 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Wind Speed Wind Direction	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	-	-	-	-	-
NE	-	1.39	-	1.39	-
ENE	1.39	2.78	-	6.94	4.17
E	1.39	1.39	8.33	6.94	2.78
ESE	1.39	1.39	-	4.17	-
SE	1.39	-	4.17	1.39	5.56
SSE	-	-	-	-	-
S	-	-	5.56	-	1.39
SSW	2.78	-	2.78	4.17	1.39
SW	-	-	1.39	2.78	-
WSW	-	-	-	4.17	-
W	1.39	1.39	-	-	1.39
WNW	-	1.39	-	-	-
NW	-	-	-	1.39	-
NNW	1.39	-	-	-	-
<b>CALM</b>	<b>6.94</b>				



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**Report No.** : 2024-500001316-1 / 001-3 (Page 6 of 6)

**Issued date** : May 30, 2024

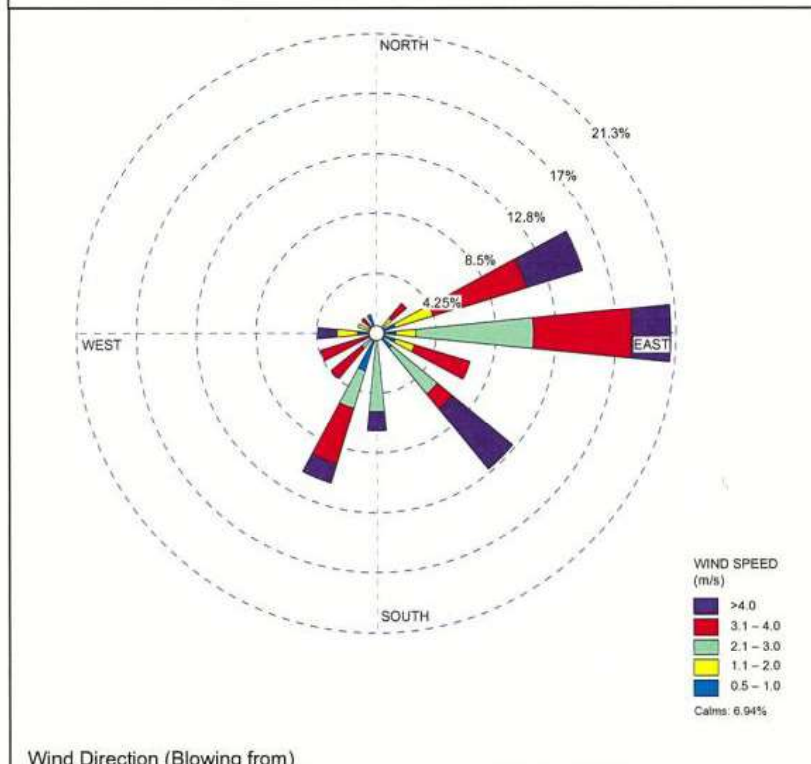
**CLIENT** : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT** : Khun Chayakorn Sukontrakun  
**ADDRESS** : 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS** : Ambient Air Quality **MEASUREMENT DATE** : May 9-12, 2024  
**MEASUREMENT LOCATION** : โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง **MEASURED BY** : Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

### WIND ROSE PLOT

**Measurement Location** : โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง  
**Measurement Date** : May 9-12, 2024



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Technical Manager

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E 282256

**Report No. : 2024-500001316-1 / 001-4 (Page 1 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** วัดท่าช้าง

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Station	Date	TSP (mg/m <sup>3</sup> )	PM10 (mg/m <sup>3</sup> )
วัดท่าช้าง	May 9-10, 2024	0.074	0.024
	May 10-11, 2024	0.051	0.018
	May 11-12, 2024	0.049	0.014
Standard <sup>1/</sup>		0.33	0.12

**Remark :** - Sampling and analytical technique for TSP and PM10 based on High Volume Air Sampler / Size Selective High Volume Air Sampler.

**Source :** <sup>1/</sup> Notification of the National Environmental Board No. 24, B.E. 2547 (2004), which was published in the Royal Government Gazette No. 121 Special Part 104 D dated September 22, B.E.2547 (2004).

SGS (THAILAND) LIMITED

Technical Manager

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**Report No. : 2024-500001316-1 / 001-4 (Page 2 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** วัดท่าช้าง

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Time	NO <sub>2</sub> Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.004	0.007	0.005
01:00-02:00	0.003	0.008	0.005
02:00-03:00	0.003	0.009	0.008
03:00-04:00	0.004	0.009	0.009
04:00-05:00	0.004	0.007	0.008
05:00-06:00	0.005	0.008	0.010
06:00-07:00	0.005	0.007	0.009
07:00-08:00	0.009	0.007	0.009
08:00-09:00	0.008	0.008	0.007
09:00-10:00	0.008	0.006	0.006
10:00-11:00	0.008	0.007	0.006
11:00-12:00	0.010	0.005	0.006
12:00-13:00	0.005	0.005	0.005
13:00-14:00	0.006	0.005	0.006
14:00-15:00	0.006	0.005	0.005
15:00-16:00	0.006	0.005	0.005
16:00-17:00	0.009	0.005	0.005
17:00-18:00	0.008	0.008	0.005
18:00-19:00	0.006	0.003	0.005
19:00-20:00	0.007	0.005	0.005
20:00-21:00	0.008	0.007	0.006
21:00-22:00	0.011	0.010	0.008
22:00-23:00	0.010	0.008	0.010
23:00-00:00	0.008	0.005	0.012
1 hr-Minimum	0.003	0.003	0.005
1 hr-Maximum	0.011	0.010	0.012
Avg. 24 hr	0.007	0.007	0.007
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).



Technical Manager

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**Report No. : 2024-500001316-1 / 001-4 (Page 4 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** วัดท่าช้าง

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

TIME	May 10, 2024		May 11, 2024		May 12, 2024	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	SSW	1.8	NW	0.9	-	Calm
01:00-02:00	SSW	1.8	-	Calm	-	Calm
02:00-03:00	SW	1.3	-	Calm	-	Calm
03:00-04:00	-	Calm	NE	0.9	-	Calm
04:00-05:00	-	Calm	-	Calm	-	Calm
05:00-06:00	-	Calm	NE	1.3	-	Calm
06:00-07:00	-	Calm	-	Calm	-	Calm
07:00-08:00	-	Calm	-	Calm	-	Calm
08:00-09:00	ENE	0.9	NE	0.9	-	Calm
09:00-10:00	ENE	0.9	NE	0.9	-	Calm
10:00-11:00	NE	0.9	-	Calm	-	Calm
11:00-12:00	NE	0.9	-	Calm	WSW	0.9
12:00-13:00	SW	0.9	-	Calm	SSW	0.9
13:00-14:00	ENE	0.9	WNW	0.9	SW	0.9
14:00-15:00	ENE	0.9	W	0.9	SSW	0.9
15:00-16:00	SSW	1.3	SW	0.9	SW	0.9
16:00-17:00	SSW	0.9	-	Calm	SSW	0.9
17:00-18:00	SW	0.9	-	Calm	SW	0.9
18:00-19:00	W	0.9	WSW	1.3	WNW	0.9
19:00-20:00	-	Calm	-	Calm	SSW	0.9
20:00-21:00	-	Calm	-	Calm	-	Calm
21:00-22:00	-	Calm	-	Calm	-	Calm
22:00-23:00	S	0.9	SSW	0.9	-	Calm
23:00-00:00	-	Calm	SSW	0.9	-	Calm

**Measurement Method :** - Wind Speed and Wind Direction recording meter

**Remarks :**  
 - WS = Wind Speed  
 - WD = Wind Direction

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**Report No. : 2024-500001316-1 / 001-4 (Page 5 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**MEASUREMENT DATE :** May 9-12, 2024

**MEASUREMENT LOCATION :** วัดท่าช้าง

**MEASURED BY :** Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Wind Speed Wind Direction	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	-	-	-	-	-
NE	6.94	1.39	-	-	-
ENE	5.56	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	1.39	-	-	-	-
SSW	9.72	4.17	-	-	-
SW	8.33	1.39	-	-	-
WSW	1.39	1.39	-	-	-
W	2.78	-	-	-	-
WNW	2.78	-	-	-	-
NW	1.39	-	-	-	-
NNW	-	-	-	-	-
<b>CALM</b>	<b>51.39</b>				

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**Report No. : 2024-500001316-1 / 001-4 (Page 6 of 6)**

**Issued date : May 30, 2024**

**CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)**  
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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality**

**MEASUREMENT DATE : May 9-12, 2024**

**MEASUREMENT LOCATION : วัดท่าช้าง**

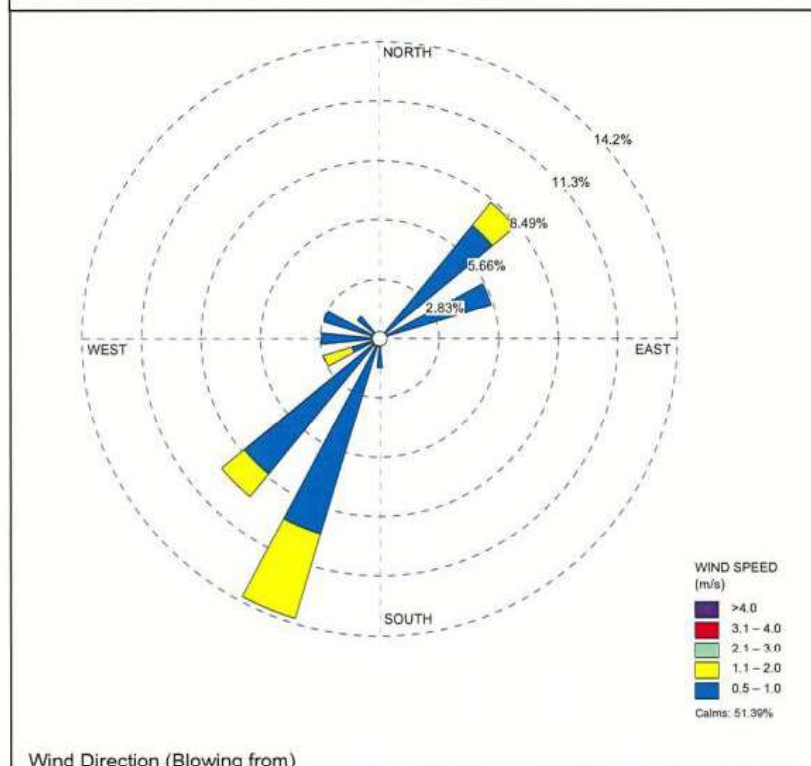
**MEASURED BY : Kittikhun Thaseephet**

Sukhothai Airport, Sukhothai Province

### WIND ROSE PLOT

**Measurement Location : วัดท่าช้าง**

**Measurement Date : May 9-12, 2024**



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**Report No. : 2024-500001316-1 / 001-5 (Page 1 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Station	Date	TSP (mg/m <sup>3</sup> )	PM10 (mg/m <sup>3</sup> )
ภายในพื้นที่สนามบินสุโขทัย	May 9-10, 2024	0.064	0.025
	May 10-11, 2024	0.051	0.019
	May 11-12, 2024	0.046	0.014
<b>Standard<sup>1/</sup></b>		<b>0.33</b>	<b>0.12</b>

**Remark :** - Sampling and analytical technique for TSP and PM10 based on High Volume Air Sampler / Size Selective High Volume Air Sampler.  
**Source :** <sup>1/</sup> Notification of the National Environmental Board No. 24, B.E. 2547 (2004), which was published in the Royal Government Gazette No. 121 Special Part 104 D dated September 22, B.E.2547 (2004).

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**Report No. : 2024-500001316-1 / 001-5 (Page 2 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Time	NO <sub>2</sub> Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.007	0.003	0.001
01:00-02:00	0.008	0.003	0.004
02:00-03:00	0.006	0.003	0.002
03:00-04:00	0.006	0.005	0.002
04:00-05:00	0.007	0.002	0.003
05:00-06:00	0.005	0.003	0.003
06:00-07:00	0.007	0.002	0.001
07:00-08:00	0.008	0.003	0.001
08:00-09:00	0.007	0.001	0.002
09:00-10:00	0.005	0.002	0.003
10:00-11:00	0.007	0.003	0.004
11:00-12:00	0.003	0.004	0.004
12:00-13:00	0.005	0.002	0.002
13:00-14:00	0.007	0.003	0.002
14:00-15:00	0.003	0.002	0.003
15:00-16:00	0.003	0.001	0.002
16:00-17:00	0.005	0.002	0.002
17:00-18:00	0.009	0.002	0.003
18:00-19:00	0.005	0.003	0.002
19:00-20:00	0.006	0.002	0.003
20:00-21:00	0.005	0.002	0.002
21:00-22:00	0.008	0.001	0.006
22:00-23:00	0.005	0.004	0.008
23:00-00:00	0.004	0.004	0.006
1 hr-Minimum	0.003	0.001	0.001
1 hr-Maximum	0.009	0.005	0.008
Avg. 24 hr	0.006	0.003	0.003
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).



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**Report No. : 2024-500001316-1 / 001-5 (Page 3 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Time	CO Concentration (ppm)		
	May 10, 2024	May 11, 2024	May 12, 2024
00:00-01:00	0.619	0.916	1.188
01:00-02:00	1.152	0.560	0.629
02:00-03:00	1.084	1.218	1.148
03:00-04:00	1.173	0.555	0.492
04:00-05:00	0.449	0.395	0.478
05:00-06:00	1.096	0.691	0.756
06:00-07:00	0.480	1.121	0.533
07:00-08:00	0.940	0.903	0.990
08:00-09:00	0.803	0.436	0.756
09:00-10:00	0.859	0.478	0.520
10:00-11:00	0.989	0.875	0.480
11:00-12:00	0.735	1.035	0.587
12:00-13:00	0.994	1.292	0.968
13:00-14:00	0.791	0.824	0.565
14:00-15:00	0.956	1.196	0.542
15:00-16:00	0.859	0.925	0.505
16:00-17:00	0.546	0.449	0.709
17:00-18:00	0.377	0.449	0.899
18:00-19:00	0.356	0.796	0.982
19:00-20:00	1.145	1.071	0.652
20:00-21:00	0.986	0.475	0.973
21:00-22:00	0.374	1.179	0.840
22:00-23:00	1.068	0.565	0.611
23:00-00:00	0.453	1.142	0.488
1 hr-Minimum	0.356	0.395	0.478
1 hr-Maximum	1.173	1.292	1.188
Avg. 8 hrs	00:00-08:00	0.874	0.777
	08:00-16:00	0.873	0.615
	16:00-00:00	0.663	0.769
Standard* (avg. 1 hrs)		30	
Standard* (avg. 8 hr)		9	

**Analytical Method :** - UV Fluorescence Method.

**Sources :** \* The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 71D, dated September 5, B.E. 2538 (1995)

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**Report No. : 2024-500001316-1 / 001-5 (Page 4 of 6)**

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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

TIME	May 10, 2024		May 11, 2024		May 12, 2024	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	SSW	7.6	SW	4.9	SSW	3.1
01:00-02:00	SSW	6.7	SSW	1.8	-	Calm
02:00-03:00	SW	6.7	NW	1.8	-	Calm
03:00-04:00	SW	2.7	NW	0.9	-	Calm
04:00-05:00	E	0.9	-	Calm	-	Calm
05:00-06:00	-	Calm	NW	1.3	-	Calm
06:00-07:00	-	Calm	NW	1.3	-	Calm
07:00-08:00	-	Calm	NW	1.3	-	Calm
08:00-09:00	-	Calm	NW	1.8	NW	1.3
09:00-10:00	-	Calm	NW	2.2	NW	1.8
10:00-11:00	NW	0.9	NNE	1.8	NW	1.3
11:00-12:00	SW	1.3	NW	0.9	NW	1.3
12:00-13:00	SW	1.8	NW	1.3	NW	1.8
13:00-14:00	NW	1.3	NW	1.8	SW	1.8
14:00-15:00	NW	1.8	NW	1.3	NW	1.3
15:00-16:00	SW	2.7	SSW	1.3	SSW	1.8
16:00-17:00	SW	3.1	WNW	1.8	NW	1.3
17:00-18:00	W	3.6	NW	2.2	NW	2.2
18:00-19:00	NW	3.1	NW	2.7	SSW	3.1
19:00-20:00	SW	1.8	NW	2.2	SSW	3.6
20:00-21:00	SW	0.9	W	2.2	SSW	2.7
21:00-22:00	SSE	0.9	WSW	1.8	SW	0.9
22:00-23:00	SSW	3.6	SSW	2.7	-	Calm
23:00-00:00	SSW	3.6	SSW	3.6	-	Calm

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

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**Report No. : 2024-500001316-1 / 001-5 (Page 5 of 6)**

**Issued date : May 30, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย **MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

Wind Speed Wind Direction	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	-	1.39	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	1.39	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	1.39	-	-	-	-
S	-	-	-	-	-
SSW	-	4.17	2.78	8.33	2.78
SW	2.78	5.56	2.78	1.39	2.78
WSW	-	1.39	-	-	-
W	-	-	1.39	1.39	-
WNW	-	1.39	-	-	-
NW	4.17	23.61	6.94	1.39	-
NNW	-	-	-	-	-
<b>CALM</b>	<b>20.83</b>				

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**Report No. : 2024-500001316-1 / 001-5 (Page 6 of 6)**

**Issued date : May 30, 2024**

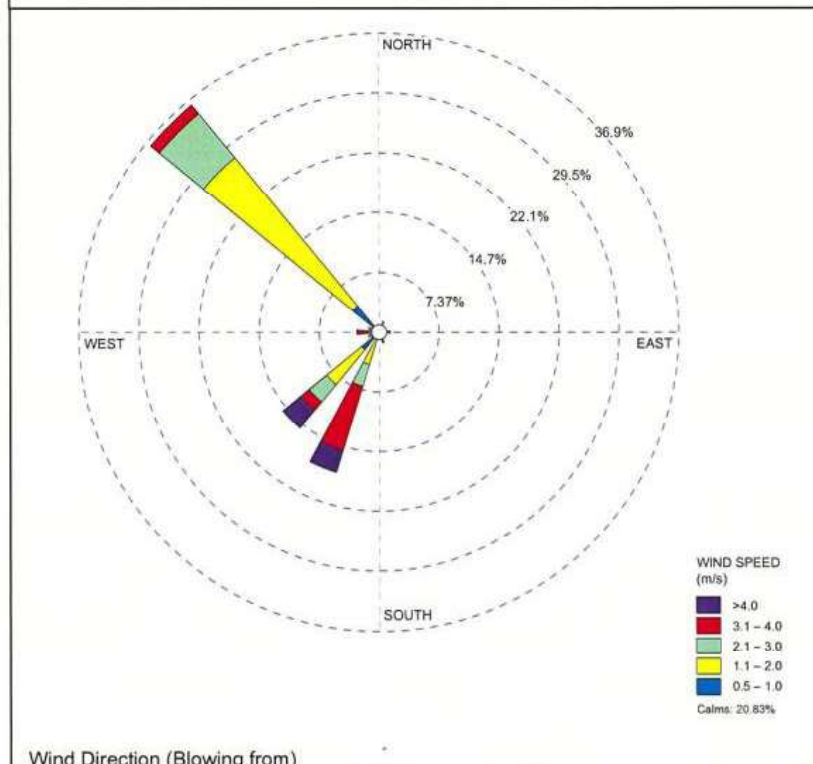
**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**MEASUREMENT DATE :** May 9-12, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย  
**MEASURED BY :** Kittikhun Thaseephet  
 Sukhothai Airport, Sukhothai Province

### WIND ROSE PLOT

**Measurement Location :** ภายในพื้นที่สนามบินสุโขทัย  
**Measurement Date :** May 9-12, 2024



SGS (THAILAND) LIMITED

Technical Manager

TY/MM/MTM/MTM

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E 282268

# ระดับเสียง

**Report No. : 2024-500001316-1 / 002-1 (Page 1 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 #111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** วัดหนองชุมแสง **MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078141

Time	Noise Level [dB(A)]										Standard
	May 10,2024		May 11,2024		May 12,2024		May 13,2024		May 14,2024		
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
00:00-01:00	40.3	56.1	53.1	67.4	47.3	53.0	46.8	59.8	45.3	58.4	
01:00-02:00	40.9	62.8	64.4	81.8	45.0	53.5	45.9	62.0	45.0	62.8	
02:00-03:00	39.6	51.5	58.0	69.4	46.6	65.9	45.1	54.2	47.0	71.1	
03:00-04:00	40.7	53.9	50.3	57.8	44.8	54.9	44.5	61.4	41.8	61.2	
04:00-05:00	43.3	66.5	49.8	55.5	45.7	61.2	44.8	57.9	42.9	57.8	
05:00-06:00	50.1	69.1	51.9	74.8	57.3	68.8	52.6	69.2	53.3	69.1	
06:00-07:00	52.4	73.6	57.2	75.1	55.3	75.6	54.3	74.7	56.3	74.8	
07:00-08:00	54.6	74.4	56.2	76.4	55.6	75.2	55.3	82.2	51.5	65.4	
08:00-09:00	52.1	70.0	51.1	68.1	52.0	73.9	54.1	72.0	51.2	67.0	
09:00-10:00	52.8	69.3	51.6	67.9	49.9	65.3	50.8	67.2	53.8	79.3	
10:00-11:00	52.1	71.0	50.2	68.9	51.5	69.8	53.0	76.5	50.7	67.3	
11:00-12:00	52.3	73.6	50.2	68.1	50.6	67.2	51.5	76.4	48.2	64.3	
12:00-13:00	48.8	68.6	78.9	92.4	50.6	70.8	51.4	73.0	47.1	61.9	
13:00-14:00	49.4	65.1	50.9	67.6	48.9	64.0	53.0	74.2	47.0	64.6	
14:00-15:00	49.2	66.3	47.4	65.6	49.2	74.8	50.9	77.6	47.8	77.0	
15:00-16:00	49.4	67.9	51.6	75.4	46.8	62.6	48.7	77.1	49.5	66.3	
16:00-17:00	50.0	68.8	51.8	74.9	50.5	78.6	50.1	66.4	52.2	66.1	
17:00-18:00	49.6	69.2	51.7	68.1	51.2	74.1	50.6	67.4	53.1	68.0	
18:00-19:00	52.8	78.9	51.0	69.8	51.3	72.2	54.5	67.1	53.2	62.6	
19:00-20:00	63.6	102.0	51.3	73.6	48.2	70.1	46.7	58.9	55.8	68.9	
20:00-21:00	46.2	67.2	45.9	56.9	48.1	60.2	41.5	52.3	64.9	78.9	
21:00-22:00	45.0	58.1	50.8	69.8	47.3	56.0	43.3	58.7	48.2	63.5	
22:00-23:00	48.2	59.3	47.4	60.4	47.3	58.9	43.9	61.3	45.7	58.7	
23:00-00:00	57.2	67.9	48.8	64.4	47.8	59.2	45.2	62.9	45.3	59.0	
Leq 24 hrs	53.2	-	65.4	-	50.9	-	50.8	-	53.9	-	70 <sup>1/</sup>
Ldn	57.5	-	67.2	-	57.5	-	55.8	-	57.6	-	-
Lmax	-	102.0	-	92.4	-	78.6	-	82.2	-	79.3	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

SGS (THAILAND) LIMITED

Technical Manager

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**Report No. : 2024-500001316-1 / 002-1 (Page 2 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** วัดหนองชุมแสง **MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078141

Time	Noise Level [dB(A)]				Standard
	May 15,2024		May 16,2024		
	Leq	Lmax	Leq	Lmax	
00:00-01:00	43.9	61.8	43.1	53.9	
01:00-02:00	43.7	55.7	45.1	64.3	
02:00-03:00	44.2	57.7	45.8	68.3	
03:00-04:00	44.3	61.0	43.2	60.8	
04:00-05:00	47.5	69.7	44.2	64.4	
05:00-06:00	52.6	67.9	52.7	69.5	
06:00-07:00	54.1	68.7	54.3	72.2	
07:00-08:00	52.8	75.1	78.9	92.7	
08:00-09:00	55.0	70.9	55.7	69.7	
09:00-10:00	53.3	66.2	52.2	79.2	
10:00-11:00	58.5	68.5	52.2	83.3	
11:00-12:00	60.8	72.7	49.9	68.8	
12:00-13:00	62.5	78.4	49.3	63.2	
13:00-14:00	63.6	71.4	49.4	63.6	
14:00-15:00	60.9	67.4	49.3	66.9	
15:00-16:00	47.0	62.4	49.4	62.0	
16:00-17:00	53.9	79.2	55.0	85.7	
17:00-18:00	50.1	65.9	50.5	65.0	
18:00-19:00	51.0	67.4	52.4	65.9	
19:00-20:00	48.8	79.5	42.7	62.7	
20:00-21:00	43.9	59.0	45.9	72.3	
21:00-22:00	43.8	57.2	41.8	54.1	
22:00-23:00	45.0	55.3	41.6	49.7	
23:00-00:00	45.0	61.8	44.4	62.8	
Leq 24 hrs	55.9	-	65.2	-	70 <sup>1/</sup>
Ldn	58.0	-	65.5	-	-
Lmax	-	79.5	-	92.7	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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Technical Manager

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**Report No. : 2024-500001316-1 / 002-2 (Page 1 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** โรงเรียนวัดไพรน้อย (วัดไพรน้อย) **MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-28, Cirrus, Serial No. 00570431

Time	Noise Level [dB(A)]										Standard
	May 10,2024		May 11,2024		May 12,2024		May 13,2024		May 14,2024		
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
00:00-01:00	49.4	62.2	46.3	61.4	53.2	76.9	49.1	65.6	55.2	62.4	
01:00-02:00	49.1	71.7	44.2	55.5	49.3	55.8	49.6	54.3	53.3	59.4	
02:00-03:00	47.2	68.0	45.4	62.2	50.8	57.1	47.8	52.1	49.5	57.3	
03:00-04:00	44.9	59.5	47.3	64.1	52.0	61.2	50.0	70.8	50.3	54.2	
04:00-05:00	47.2	61.0	50.3	68.5	50.8	76.4	48.7	58.9	50.4	59.1	
05:00-06:00	56.8	74.0	56.4	74.8	58.5	76.1	56.2	75.4	56.8	76.9	
06:00-07:00	57.4	71.2	57.7	70.7	58.2	69.9	58.1	71.1	57.4	72.1	
07:00-08:00	56.0	72.8	57.5	72.6	57.2	71.6	57.7	69.6	57.7	71.7	
08:00-09:00	55.2	75.1	55.7	69.8	57.5	72.8	55.5	68.9	56.5	69.8	
09:00-10:00	54.5	71.1	56.2	70.5	55.5	72.0	56.8	74.2	58.3	77.6	
10:00-11:00	54.1	71.2	55.4	76.7	54.7	70.6	55.8	76.7	58.1	76.2	
11:00-12:00	55.2	72.8	56.1	71.6	54.4	70.4	54.2	70.3	57.0	73.5	
12:00-13:00	54.8	73.2	55.2	70.2	54.1	67.9	55.6	71.4	56.8	70.5	
13:00-14:00	53.1	66.1	56.3	73.6	54.4	72.1	55.0	73.2	56.4	72.6	
14:00-15:00	55.4	71.4	54.3	70.1	55.5	76.5	55.8	70.4	56.1	70.2	
15:00-16:00	54.4	69.0	58.5	77.8	55.3	78.6	53.7	71.3	54.9	70.5	
16:00-17:00	58.1	76.9	57.6	74.2	55.3	72.6	56.5	68.3	61.0	82.7	
17:00-18:00	55.7	73.1	57.5	76.5	57.8	74.1	58.3	78.0	70.8	84.9	
18:00-19:00	55.2	73.5	59.7	80.5	55.3	68.5	56.3	72.3	57.1	74.9	
19:00-20:00	52.6	68.2	51.4	72.4	51.6	69.5	60.1	72.6	52.5	74.3	
20:00-21:00	51.0	72.3	52.9	77.4	50.7	68.3	67.5	79.7	59.0	69.9	
21:00-22:00	50.5	73.1	48.7	62.1	49.9	68.4	52.3	65.2	58.8	63.1	
22:00-23:00	51.9	64.9	47.5	66.1	49.2	61.5	46.3	63.6	59.5	74.5	
23:00-00:00	46.3	63.2	51.1	72.8	48.6	54.4	54.3	58.1	57.4	61.2	
Leq 24 hrs	54.0	-	55.1	-	54.7	-	57.5	-	59.9	-	70 <sup>1/</sup>
Ldn	59.2	-	59.4	-	60.5	-	60.9	-	63.5	-	-
Lmax	-	76.9	-	80.5	-	78.6	-	79.7	-	84.9	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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Technical Manager

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**Report No. : 2024-500001316-1 / 002-2 (Page 2 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
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 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** โรงเรียนวัดไทรย้อย (วัดไทรย้อย) **MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model NA-28, Cirrus, Serial No. 00570431

Time	Noise Level [dB(A)]				Standard
	May 15,2024		May 16,2024		
	Leq	Lmax	Leq	Lmax	
00:00-01:00	57.6	60.6	58.7	62.7	
01:00-02:00	55.6	59.0	56.4	61.6	
02:00-03:00	57.1	61.7	58.3	64.7	
03:00-04:00	58.1	63.8	59.1	62.0	
04:00-05:00	56.4	75.3	57.5	75.3	
05:00-06:00	74.8	86.3	59.2	76.1	
06:00-07:00	58.4	71.6	58.3	75.2	
07:00-08:00	56.9	70.9	58.2	73.7	
08:00-09:00	55.9	69.3	56.2	70.1	
09:00-10:00	58.4	72.1	63.1	87.4	
10:00-11:00	57.3	68.0	55.1	71.8	
11:00-12:00	55.4	67.2	55.2	74.3	
12:00-13:00	55.1	73.5	53.3	67.9	
13:00-14:00	57.3	71.2	54.5	75.7	
14:00-15:00	56.7	70.8	51.7	66.8	
15:00-16:00	55.2	69.7	53.4	70.0	
16:00-17:00	55.0	72.0	54.7	71.2	
17:00-18:00	55.7	73.1	56.3	72.0	
18:00-19:00	57.0	75.1	55.5	75.3	
19:00-20:00	52.8	71.0	51.9	68.6	
20:00-21:00	55.4	65.9	49.1	68.3	
21:00-22:00	55.7	63.4	52.3	75.1	
22:00-23:00	58.4	73.2	48.4	66.8	
23:00-00:00	55.1	68.4	52.2	70.3	
Leq 24 hrs	62.3	-	56.6	-	70 <sup>1)</sup>
Ldn	71.6	-	63.7	-	-
Lmax	-	86.3	-	87.4	115 <sup>1)</sup>

**Source:** <sup>1)</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

TY/MM/MTM/MTM

SGS (THAILAND) LIMITED

Technical Manager

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**Report No. : 2024-500001316-1 / 002-3 (Page 1 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง  
**MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078137

Time	Noise Level [dB(A)]										Standard
	May 10,2024		May 11,2024		May 12,2024		May 13,2024		May 14,2024		
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
00:00-01:00	46.4	69.1	50.4	67.2	48.9	62.7	48.0	67.5	46.0	66.0	
01:00-02:00	45.5	70.2	66.1	85.0	47.6	64.8	45.9	59.3	45.7	64.5	
02:00-03:00	45.8	66.1	55.7	79.7	47.4	66.2	46.6	65.8	47.0	67.6	
03:00-04:00	47.2	66.6	48.6	64.2	48.9	69.7	46.2	66.6	46.3	65.3	
04:00-05:00	49.1	69.4	49.9	67.1	48.6	65.7	48.4	66.8	58.9	71.0	
05:00-06:00	53.7	69.7	57.0	80.8	63.7	80.8	67.1	84.5	64.3	76.8	
06:00-07:00	54.8	69.4	55.0	68.5	63.5	74.5	69.1	83.3	62.5	79.2	
07:00-08:00	56.6	74.1	53.9	76.2	54.5	72.6	60.8	75.0	67.5	81.8	
08:00-09:00	62.0	78.1	54.7	72.4	54.7	70.7	61.0	76.7	58.3	69.6	
09:00-10:00	61.5	83.7	55.9	75.1	54.4	68.4	58.0	77.5	55.4	68.5	
10:00-11:00	56.8	72.0	63.4	76.3	58.5	77.9	56.1	82.0	59.7	78.0	
11:00-12:00	58.8	76.8	56.3	73.7	65.3	82.7	53.1	77.9	54.2	73.0	
12:00-13:00	64.2	76.5	53.3	71.2	61.6	75.8	52.7	68.9	54.2	72.7	
13:00-14:00	70.2	99.1	55.0	74.3	57.7	77.7	53.2	76.5	53.6	74.0	
14:00-15:00	65.3	99.8	53.6	70.2	61.0	75.9	55.5	74.1	52.7	72.3	
15:00-16:00	55.8	74.0	58.7	83.4	60.0	76.5	55.7	70.0	53.5	71.5	
16:00-17:00	58.8	82.8	54.5	69.5	64.1	85.3	56.0	78.9	64.4	76.6	
17:00-18:00	65.5	82.4	58.9	73.6	63.9	80.4	57.1	80.2	57.9	76.2	
18:00-19:00	66.9	79.4	59.0	74.7	66.3	85.0	55.5	74.8	55.6	72.4	
19:00-20:00	64.8	77.5	60.9	72.5	70.2	96.2	55.5	79.4	54.4	69.7	
20:00-21:00	62.1	75.9	56.4	69.9	58.1	75.3	57.8	69.9	63.9	96.1	
21:00-22:00	58.8	74.8	56.8	68.5	57.9	67.6	57.7	68.6	53.9	66.5	
22:00-23:00	56.7	66.0	56.1	66.8	53.5	65.4	55.9	71.3	46.4	65.1	
23:00-00:00	55.5	66.8	51.9	64.8	48.3	65.8	48.2	65.3	51.0	82.2	
Leq 24 hrs	62.0	-	58.0	-	61.7	-	59.5	-	59.4	-	70 <sup>1/</sup>
Ldn	63.4	-	64.7	-	65.4	-	67.9	-	64.7	-	-
Lmax	-	99.8	-	85.0	-	96.2	-	84.5	-	96.1	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

SGS (THAILAND) LIMITED

Technical Manager

TY/MM/MTM/MTM

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**Report No. : 2024-500001316-1 / 002-3 (Page 2 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
**ADDRESS :** 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110  
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** โรงพยาบาลส่งเสริมสุขภาพตำบลท่าทอง  
**MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078137

Time	Noise Level [dB(A)]				Standard
	May 15,2024		May 16,2024		
	Leq	Lmax	Leq	Lmax	
00:00-01:00	49.3	59.5	48.3	61.0	
01:00-02:00	48.8	71.5	48.2	62.0	
02:00-03:00	48.0	68.1	47.0	65.9	
03:00-04:00	48.7	70.7	47.2	67.0	
04:00-05:00	51.3	68.3	51.7	68.9	
05:00-06:00	55.9	80.5	54.2	72.5	
06:00-07:00	56.1	77.3	54.2	69.6	
07:00-08:00	55.1	70.4	56.0	73.2	
08:00-09:00	53.8	70.0	53.5	67.5	
09:00-10:00	54.8	74.2	55.4	79.6	
10:00-11:00	54.0	74.2	55.8	76.9	
11:00-12:00	53.0	70.4	52.3	68.1	
12:00-13:00	52.4	69.6	54.8	72.3	
13:00-14:00	51.7	65.4	55.9	80.4	
14:00-15:00	53.0	72.5	54.4	80.6	
15:00-16:00	53.6	71.4	52.3	66.5	
16:00-17:00	57.1	79.9	54.1	71.1	
17:00-18:00	55.7	77.0	53.5	74.0	
18:00-19:00	54.3	71.0	53.4	69.4	
19:00-20:00	52.8	78.3	51.4	72.2	
20:00-21:00	51.1	68.6	48.2	65.3	
21:00-22:00	51.2	74.1	47.7	67.0	
22:00-23:00	49.4	68.4	46.2	63.3	
23:00-00:00	48.1	62.0	45.6	60.9	
Leq 24 hrs	53.2	-	52.8	-	70 <sup>1/</sup>
Ldn	58.6	-	57.5	-	-
Lmax	-	80.5	-	80.6	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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SGS (THAILAND) LIMITED

Technical Manager

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**Report No. : 2024-500001316-1 / 002-4 (Page 1 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
**CONTACT :** Khun Chayakorn Sukontrakun  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** วัดท่าช้าง **MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078054

Time	Noise Level [dB(A)]										Standard
	May 10,2024		May 11,2024		May 12,2024		May 13,2024		May 14,2024		
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
00:00-01:00	39.4	60.7	48.7	66.0	48.8	62.5	47.8	56.6	51.8	56.8	
01:00-02:00	38.5	47.8	53.0	73.1	47.8	66.5	54.6	81.3	52.8	59.5	
02:00-03:00	42.8	62.6	50.4	70.2	48.6	60.3	50.5	56.5	51.9	71.7	
03:00-04:00	49.4	59.6	49.0	69.4	49.8	70.3	53.3	62.5	48.5	63.5	
04:00-05:00	53.4	56.9	48.2	55.2	48.2	58.9	63.5	80.1	56.9	72.9	
05:00-06:00	78.7	89.3	56.1	74.2	56.2	72.8	73.7	82.7	57.0	72.3	
06:00-07:00	53.3	73.6	64.7	85.9	54.8	79.4	67.3	80.5	55.2	77.8	
07:00-08:00	53.5	78.8	53.5	81.5	53.1	70.0	65.2	79.3	52.3	76.4	
08:00-09:00	52.0	70.8	54.8	74.0	51.8	75.0	69.2	81.8	50.9	74.8	
09:00-10:00	52.7	72.4	55.5	73.2	51.6	66.9	68.9	93.0	50.0	65.3	
10:00-11:00	53.1	82.7	54.8	66.6	53.1	66.9	51.7	69.2	49.4	64.4	
11:00-12:00	52.5	66.7	50.9	67.2	50.9	64.6	66.5	77.5	50.5	63.0	
12:00-13:00	51.4	77.2	49.4	64.3	50.7	69.7	49.9	66.3	51.4	83.8	
13:00-14:00	50.8	68.1	50.1	66.9	50.5	66.1	49.8	65.3	49.5	82.6	
14:00-15:00	50.0	69.6	50.6	73.3	50.1	66.8	49.8	79.9	48.3	66.9	
15:00-16:00	53.2	87.2	50.7	63.7	49.8	75.9	51.5	85.6	48.6	69.6	
16:00-17:00	51.9	64.8	52.3	72.3	54.9	67.9	51.7	73.2	51.0	65.4	
17:00-18:00	53.7	67.9	53.3	68.0	59.5	74.8	53.1	75.8	52.1	66.0	
18:00-19:00	59.9	69.4	57.3	68.2	61.6	74.5	54.2	68.7	53.1	69.9	
19:00-20:00	53.8	67.4	52.6	70.7	50.7	62.3	48.1	63.5	54.7	85.9	
20:00-21:00	49.1	60.8	46.0	64.0	48.9	63.2	49.5	61.8	65.9	74.5	
21:00-22:00	48.6	61.3	48.3	63.2	52.3	59.6	50.7	58.7	45.2	63.0	
22:00-23:00	46.2	59.2	54.7	62.2	52.7	56.7	46.9	59.6	44.3	53.5	
23:00-00:00	49.0	63.5	47.7	60.7	51.3	65.3	54.0	66.3	55.7	62.2	
Leq 24 hrs	65.1	-	54.8	-	53.7	-	63.8	-	55.2	-	70 <sup>1/</sup>
Ldn	75.0	-	62.8	-	58.8	-	71.6	-	60.8	-	-
Lmax	-	89.3	-	85.9	-	79.4	-	93.0	-	85.9	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).



Technical Manager

TY/MM/MTM/MTM

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**Report No. : 2024-500001316-1 / 002-4 (Page 2 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level  
**MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** วัดท่าช้าง  
**MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078054

Time	Noise Level [dB(A)]				Standard
	May 15,2024		May 16,2024		
	Leq	Lmax	Leq	Lmax	
00:00-01:00	60.9	63.2	65.4	72.8	
01:00-02:00	61.4	63.7	63.7	71.3	
02:00-03:00	59.8	62.6	65.4	72.3	
03:00-04:00	56.8	60.3	63.5	66.7	
04:00-05:00	54.9	60.3	64.1	69.9	
05:00-06:00	57.4	76.0	79.0	91.3	
06:00-07:00	54.5	72.1	54.5	67.2	
07:00-08:00	54.2	75.8	53.5	66.1	
08:00-09:00	51.0	66.5	51.3	77.4	
09:00-10:00	49.8	68.1	52.5	72.2	
10:00-11:00	50.1	75.6	49.7	67.2	
11:00-12:00	49.4	72.5	49.8	68.8	
12:00-13:00	48.9	65.1	48.3	66.0	
13:00-14:00	47.5	66.1	47.6	66.4	
14:00-15:00	48.9	74.7	48.1	74.8	
15:00-16:00	61.5	88.6	51.2	71.9	
16:00-17:00	65.1	89.0	49.2	62.9	
17:00-18:00	63.4	88.0	50.9	67.0	
18:00-19:00	58.0	87.5	55.1	76.8	
19:00-20:00	58.2	77.9	58.5	67.9	
20:00-21:00	59.0	76.7	60.4	78.4	
21:00-22:00	63.0	75.8	58.9	75.9	
22:00-23:00	64.9	74.5	61.0	75.9	
23:00-00:00	65.2	75.7	64.1	73.8	
Leq 24 hrs	59.9	-	66.3	-	70 <sup>11</sup>
Ldn	67.3	-	76.1	-	-
Lmax	-	89.0	-	91.3	115 <sup>11</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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SGS (THAILAND) LIMITED

Technical Manager

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E 283027

**Report No. : 2024-500001316-1 / 002-5 (Page 1 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111  
 E-mail: chayakorn.suk@bangkokair.com

## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level **MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย **MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078138

Time	Noise Level [dB(A)]										Standard
	May 10,2024		May 11,2024		May 12,2024		May 13,2024		May 14,2024		
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
00:00-01:00	56.6	61.0	58.8	79.6	58.0	61.5	61.9	67.1	61.6	67.8	
01:00-02:00	55.6	61.0	59.7	75.6	56.4	61.4	59.8	66.5	59.3	64.7	
02:00-03:00	52.3	59.0	51.8	72.4	48.2	58.9	58.1	66.4	51.6	61.6	
03:00-04:00	48.5	56.8	48.9	54.9	44.9	51.2	51.4	64.2	48.9	55.7	
04:00-05:00	50.2	58.4	54.6	60.3	45.5	55.2	46.1	52.2	49.5	53.0	
05:00-06:00	48.7	66.3	52.0	66.6	51.2	68.5	51.9	68.4	51.3	74.2	
06:00-07:00	56.7	90.6	57.1	93.0	70.0	100.1	51.9	71.0	49.9	64.9	
07:00-08:00	53.0	76.7	52.2	69.3	52.8	76.5	56.9	86.0	53.7	80.6	
08:00-09:00	57.1	81.0	56.9	82.8	59.4	78.6	55.7	79.6	59.1	80.7	
09:00-10:00	54.3	74.7	56.7	80.9	53.5	75.1	48.8	68.4	53.1	74.5	
10:00-11:00	50.4	66.9	49.8	70.0	51.0	74.3	49.4	69.4	50.8	72.5	
11:00-12:00	49.8	69.5	52.1	75.5	54.0	72.4	45.3	62.2	47.6	66.3	
12:00-13:00	49.3	72.2	51.5	73.1	51.2	73.7	46.6	64.1	45.9	67.1	
13:00-14:00	49.3	65.4	47.5	71.7	48.5	71.9	48.1	65.0	50.8	71.2	
14:00-15:00	47.1	60.7	46.8	65.7	45.5	68.1	45.1	63.0	44.9	61.1	
15:00-16:00	47.7	65.9	47.3	69.2	46.3	65.7	44.8	61.8	46.5	67.3	
16:00-17:00	49.7	78.6	48.2	64.1	49.0	65.3	47.6	67.5	49.4	71.5	
17:00-18:00	57.9	78.4	58.0	80.7	57.8	84.1	56.5	77.6	50.2	68.8	
18:00-19:00	47.2	65.3	46.8	65.6	56.9	67.9	47.0	65.6	56.8	80.7	
19:00-20:00	49.2	60.8	48.8	60.4	49.0	63.7	44.6	51.7	46.2	67.5	
20:00-21:00	53.3	61.0	52.3	60.3	46.7	53.7	50.5	58.7	61.2	80.8	
21:00-22:00	59.8	66.3	54.1	67.1	47.3	53.7	55.4	60.9	49.3	61.4	
22:00-23:00	60.7	65.1	55.8	61.3	60.7	68.0	59.5	63.8	55.8	61.7	
23:00-00:00	60.7	83.6	55.6	61.1	61.7	68.1	62.1	67.2	63.5	65.6	
Leq 24 hrs	55.0	-	54.4	-	58.6	-	55.5	-	55.9	-	70 <sup>1/</sup>
Ldn	62.6	-	62.1	-	67.8	-	64.2	-	63.9	-	-
Lmax	-	90.6	-	93.0	-	100.1	-	86.0	-	80.8	115 <sup>1/</sup>

**Source:** <sup>1/</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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**Report No. : 2024-500001316-1 / 002-5 (Page 2 of 2)**

**Issued date : June 11, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Noise Level  
**MEASUREMENT DATE :** May 10-16, 2024  
**MEASUREMENT LOCATION :** ภายในพื้นที่สนามบินสุโขทัย  
**MEASURED BY :** Kittikhun Thaseephet  
**CALIBRATION DATA :** Calibrator Model CR:515, Cirrus, Serial No. 88373,  
 Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)  
**SOUND LEVEL METER NO. :** Model CR:171B, Cirrus, Serial No. G078138

Time	Noise Level [dB(A)]				Standard
	May 15,2024		May 16,2024		
	Leq	Lmax	Leq	Lmax	
00:00-01:00	64.7	66.1	47.0	54.8	
01:00-02:00	62.4	65.1	46.1	52.9	
02:00-03:00	60.2	67.0	46.6	50.6	
03:00-04:00	63.4	68.0	47.5	51.1	
04:00-05:00	64.8	68.8	49.3	53.3	
05:00-06:00	55.6	67.0	52.6	67.9	
06:00-07:00	50.3	66.3	52.4	69.4	
07:00-08:00	51.3	77.8	51.1	70.8	
08:00-09:00	58.2	80.4	56.7	80.2	
09:00-10:00	51.4	74.6	47.1	65.1	
10:00-11:00	50.7	73.2	48.9	68.6	
11:00-12:00	47.0	65.6	49.1	71.3	
12:00-13:00	47.2	63.8	45.8	65.2	
13:00-14:00	47.8	66.8	46.0	64.8	
14:00-15:00	46.4	63.3	45.5	64.4	
15:00-16:00	45.2	64.1	45.9	64.0	
16:00-17:00	48.7	67.2	46.3	65.9	
17:00-18:00	56.0	80.6	55.8	79.1	
18:00-19:00	46.8	66.9	46.8	64.6	
19:00-20:00	47.5	57.0	43.4	52.5	
20:00-21:00	49.1	52.4	52.6	65.9	
21:00-22:00	49.1	51.4	52.9	59.1	
22:00-23:00	50.7	53.6	50.7	55.3	
23:00-00:00	49.9	53.4	48.6	52.2	
Leq 24 hrs	57.6	-	50.4	-	70 <sup>II</sup>
Ldn	66.9	-	56.2	-	-
Lmax	-	80.6	-	80.2	115 <sup>II</sup>

**Source:** <sup>II</sup> Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997)

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# คุณภาพน้ำผิวดิน



**Report No.** : 2024-5001316-1 / 004-1 (Page 1 of 1)

**Issued date** : May 30, 2024

**CLIENT** : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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## Analysis Report

**SAMPLE DESIGNATED AS** : Surface Water Quality  
**SAMPLING LOCATION** : ถนนปาดด

**SAMPLING DATE** : May 15, 2024  
**SAMPLING TIME** : 11:35 hr.

Parameter	Unit	Method	Analytical Value	Standard <sup>1/</sup>
Temperature	°C	APHA, 2550 B	32.8	-
pH	-	APHA, 4500-H <sup>+</sup> B	8.4	5.0-9.0
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	7.2	≥ 4.0
Conductivity	µs/cm	Based on APHA, 2510 B	335	-
Turbidity	NTU	APHA, 2130 B	6.1	-
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	189	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	13	-
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	Less than 2	≥ 2.0
Oil and Grease	mg/l	APHA, 5520 B	Less than 2	-
Nitrate (NO <sub>3</sub> ) as N	mg/l	APHA, 4500-NO <sub>3</sub> E	0.063	≥ 5.0
Ammonia-Nitrogen (NH <sub>3</sub> -N)	mg/l	Based on ASTM D 1426-08	0.290	≥ 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	170	≥ 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	6.1	≥ 4,000

**Remark** : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

**Standard** : <sup>1/</sup> Notification of the National Environment Board No. 8, B.E. 2537 (1994), which was issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) dated January 20, B.E. 2537 (1994) Class 3 Moderately clean fresh surface water resources use for:  
 (1) Consumption, but the water should be treated before use.  
 (2) Agriculture.



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**Report No. : 2024-500001316-1 / 003-1 (Page 1 of 1)**

**Issued date : June 4, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Wastewater Quality **SAMPLING DATE :** May 9, 2023  
**SAMPLING LOCATION :** บ่อพักน้ำทิ้งบริเวณอาคารผู้โดยสารขาเข้า-ขาออก  
 Sukhothai Airport, Sukhothai Province **SAMPLING TIME :** 10:09 hr.  
**SAMPLING BY :** Kittikhun Thaseephet

Parameter	Unit	Method	Analytical Value	Standard <sup>1/</sup>
pH	-	APHA, 4500-H+ B	7.5	5.0-9.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	7	≥40
Suspended Solids (SS)	mg/l	APHA, 2540 D	<2.5	≥50
Settleable Solids	ml/l	APHA, 2540 F	<0.1	≥0.5
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	578	≥752*
Oil & Grease	mg/l	APHA, 5520 B	<2	≥20
Sulfide (S)	mg/l	APHA, 4500-S2- D	<0.02	≥3.0
Total Kjeldahl Nitrogen (TKN)	mg/l	APHA, 4500 N <sub>org</sub> B	73.74	≥40

**Remarks :** - Analytical methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

**Sources :** \* These values are in addition to the TDS of the water used. (TDS of water used = 252 mg/l)  
<sup>1/</sup> Notification of Ministry of Natural Resources and Environment, dated November 7, B.E. 2548 (2005), published in the Royal Government Gazette, Vol. 122, Part 125 D, dated December 29, B.E. 2548 (2005).



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# คุณภาพน้ำประปา



**Report No. : 2024-500001316-1 / 005-1 (Page 1 of 1)**

**Issued date : June 4, 2024**

**CLIENT :** BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Tap Water Quality  
**SAMPLING LOCATION :** น้ำประปาภายในพื้นที่สนามบินสุโขทัย  
 Sukhothai Airport, Sukhothai Province  
**SAMPLING DATE :** May 9, 2024  
**SAMPLING TIME :** 09:58 hr.  
**SAMPLING BY :** Kittikhun Thaseephet

Parameter	Unit	Method	Result	Standard <sup>1/</sup>
<b>Physical quality</b>				
Color	Pt.Co	APHA, 2120 C	<1	15
Odor	-	-	Not objectionable	Not objectionable
Turbidity	NTU	APHA, 2130 B	<0.50	4.0
pH	-	APHA, 4500-H+ B	7.5	6.5-8.5
<b>Chemical quality</b>				
Conductivity	µs/cm	APHA, 2510 B	446	-
Total Dissolved Solids	mg/l	APHA, 2540 C	252	600
Total Solids	mg/l	APHA, 2540 B	287	-
Total Hardness (as CaCO <sub>3</sub> )	mg/l	APHA, 2340 C	127	300
Nitrate (as NO <sub>3</sub> )	mg/l	APHA, 4110 B	0.76	50
Sulfate (SO <sub>4</sub> )	mg/l	APHA, 4500-SO <sub>4</sub> E	2	250
Chloride (Cl <sup>-</sup> )	mg/l	APHA, 4500 Cl <sup>-</sup> D	58	250
Iron (Fe)	mg/l	APHA, 3125 B	0.049	0.3
Manganese (Mn)	mg/l	APHA, 3125 B	0.024	0.3
<b>Bacteriological quality</b>				
Total Coliform Bacteria	MPN/ 100 ml	APHA, 9221 B	2.2	Not detected
<i>E.coli</i>	MPN/ 100 ml	APHA, 9221 F	<1.1	Not detected

**Remark :** - Analytical methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

**Source :** <sup>1/</sup> Guideline value of Tap Water Quality Standard of Provincial Waterworks Authority, Thailand (WHO 2011).

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