

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240330127  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Mar 28 - 29, 2024      Sampling Point : Construction area  
 Received Date : Apr 01, 2024      Analytical Date : Apr 03, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	93.8	64.1
12:00 - 13:00	65.3	92.1	64.7
13:00 - 14:00	65.5	91.5	64.2
14:00 - 15:00	65.4	93.7	64.3
15:00 - 16:00	62.5	90.3	61.7
16:00 - 17:00	61.7	97.2	60.5
17:00 - 18:00	62.5	94.1	60.3
18:00 - 19:00	60.3	95.9	59.1
19:00 - 20:00	60.9	98.0	57.6
20:00 - 21:00	60.1	96.6	58.2
21:00 - 22:00	59.7	95.7	58.6
22:00 - 23:00	59.2	96.8	58.1
23:00 - 00:00	59.6	93.4	58.9
00:00 - 01:00	58.7	93.0	57.4
01:00 - 02:00	59.6	92.4	58.1
02:00 - 03:00	59.7	93.7	58.9
03:00 - 04:00	58.5	91.9	57.9
04:00 - 05:00	59.3	93.6	58.6
05:00 - 06:00	59.1	91.7	58.5
06:00 - 07:00	61.1	90.2	60.1
07:00 - 08:00	63.0	92.6	61.2
08:00 - 09:00	64.1	92.8	63.9
09:00 - 10:00	65.2	92.9	63.5
10:00 - 11:00	64.0	91.3	62.9
24 Hour	62.4	98.0	58.0
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Tawatchai Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240330128  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Mar 28-29, 2024      Sampling Point : Construction area  
 Received Date : Apr 1, 2024      Analytical Date : Apr 3, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.1	58.1	53.7	4.4
12:00 - 13:00	65.3	64.7	58.3	53.4	4.9
13:00 - 14:00	65.5	64.2	58.5	53.6	4.9
14:00 - 15:00	65.4	64.3	58.4	50.9	7.5
15:00 - 16:00	62.5	61.7	55.5	51.5	4.0
16:00 - 17:00	61.7	60.5	54.7	52.1	2.6
17:00 - 18:00	62.5	60.3	58.0	52.4	5.6
18:00 - 19:00	60.3	59.1	53.3	52.1	1.2
19:00 - 20:00	60.9	57.6	57.9	52.5	5.4
20:00 - 21:00	60.1	58.2	55.6	51.1	4.5
21:00 - 22:00	59.7	58.6	52.7	51.7	1.0
22:00 - 23:00	59.2	58.1	52.2	49.7	2.5
23:00 - 00:00	59.6	58.9	52.6	49.1	3.5
00:00 - 01:00	58.7	57.4	51.7	50.5	1.2
01:00 - 02:00	59.6	58.1	55.1	50.1	5.0
02:00 - 03:00	59.7	58.9	52.7	49.2	3.5
03:00 - 04:00	58.5	57.9	51.5	49.7	1.8
04:00 - 05:00	59.3	58.6	52.3	51.6	0.7
05:00 - 06:00	59.1	58.5	52.1	51.8	0.3
06:00 - 07:00	61.1	60.1	54.1	52.0	2.1
07:00 - 08:00	63.0	61.2	58.5	53.7	4.8
08:00 - 09:00	64.1	63.9	57.1	52.9	4.2
09:00 - 10:00	65.2	63.5	60.7	54.1	6.6
10:00 - 11:00	64.0	62.9	57.0	53.9	3.1
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchail Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240330129  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Mar 29 - 30, 2024      Sampling Point : Construction area  
 Received Date : Apr 01, 2024      Analytical Date : Apr 03, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	64.9	92.2	63.7
12:00 - 13:00	65.0	95.5	64.5
13:00 - 14:00	65.3	94.7	64.7
14:00 - 15:00	64.5	94.6	63.5
15:00 - 16:00	62.1	93.3	61.9
16:00 - 17:00	61.7	93.7	60.8
17:00 - 18:00	62.8	92.3	60.5
18:00 - 19:00	60.5	90.0	59.5
19:00 - 20:00	60.1	87.2	57.3
20:00 - 21:00	60.5	87.5	58.9
21:00 - 22:00	59.3	85.8	58.1
22:00 - 23:00	59.4	87.9	58.7
23:00 - 00:00	59.2	90.3	58.0
00:00 - 01:00	58.6	88.9	57.9
01:00 - 02:00	59.1	90.1	58.4
02:00 - 03:00	59.4	92.7	58.6
03:00 - 04:00	58.6	93.5	57.5
04:00 - 05:00	59.5	93.9	58.4
05:00 - 06:00	59.7	93.4	58.1
06:00 - 07:00	61.5	92.1	60.6
07:00 - 08:00	63.4	90.0	61.8
08:00 - 09:00	64.7	92.2	63.9
09:00 - 10:00	63.7	93.3	63.4
10:00 - 11:00	63.9	93.6	62.8
24 Hour	62.2	95.5	57.9
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name :	The Panora Baan-Amphur	Report No. :	RN240330130
Sampling Source :	Community Noise	Sampling Location :	The Panora Baan-Amphur
Sampling Date :	Mar 29-30, 2024	Sampling Point :	Construction area
Received Date :	Apr 1, 2024	Analytical Date :	Apr 3, 2024
Sampling Method :	-	Sampling Condition :	Good
Measured Instrument :	Integrated Sound Level Meter Delta OHM	Serial No. :	17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	64.9	63.7	57.9	52.7	5.2
12:00 - 13:00	65.0	64.5	58.0	52.6	5.4
13:00 - 14:00	65.3	64.7	58.3	53.1	5.2
14:00 - 15:00	64.5	63.5	57.5	50.4	7.1
15:00 - 16:00	62.1	61.9	55.1	51.9	3.2
16:00 - 17:00	61.7	60.8	54.7	52.4	2.3
17:00 - 18:00	62.8	60.5	58.3	52.6	5.7
18:00 - 19:00	60.5	59.5	53.5	52.4	1.1
19:00 - 20:00	60.1	57.3	57.1	52.7	4.4
20:00 - 21:00	60.5	58.9	56.0	51.6	4.4
21:00 - 22:00	59.3	58.1	52.3	51.4	0.9
22:00 - 23:00	59.4	58.7	52.4	49.5	2.9
23:00 - 00:00	59.2	58.0	52.2	49.7	2.5
00:00 - 01:00	58.6	57.9	51.6	50.1	1.5
01:00 - 02:00	59.1	58.4	52.1	50.6	1.5
02:00 - 03:00	59.4	58.6	52.4	49.8	2.6
03:00 - 04:00	58.6	57.5	51.6	49.5	2.1
04:00 - 05:00	59.5	58.4	52.5	50.4	2.1
05:00 - 06:00	59.7	58.1	55.2	51.4	3.8
06:00 - 07:00	61.5	60.6	54.5	52.5	2.0
07:00 - 08:00	63.4	61.8	58.9	53.4	5.5
08:00 - 09:00	64.7	63.9	57.7	52.6	5.1
09:00 - 10:00	63.7	63.4	56.7	53.7	3.0
10:00 - 11:00	63.9	62.8	56.9	53.6	3.3
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

  
(Parinya Klumnoi)

Approved By:

  
(Tawatchail Chongvutichai)



### ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440025  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : Mar 25-26, 2024 Sampling Point : Construction area  
 Received Date : Apr 01, 2024 Analytical Date : Apr 03, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
25-03-24	12:46	0.4	6.6	0.9	13.9	0.7	19.2	24.6	10<f≤50
25-03-24	13:16	0.4	16.7	0.5	15.6	0.4	9.6	23.4	10<f≤50
25-03-24	14:45	0.4	17.9	0.1	50.0	0.8	31.3	40.0	10<f≤50
26-03-24	9:15	0.3	22.7	0.7	35.7	0.5	10.0	32.9	10<f≤50
26-03-24	10:35	0.3	31.3	0.6	3.4	0.5	6.1	30.7	10<f≤50
26-03-24	11:15	0.4	10.4	0.8	27.8	0.6	41.7	35.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440026  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : Mar 26-27, 2024 Sampling Point : Construction area  
 Received Date : Apr 01, 2024 Analytical Date : Apr 03, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
26-03-24	12:36	0.4	25.0	0.2	8.6	0.8	25.0	27.5	10<f≤50
26-03-24	13:42	0.3	27.9	0.2	1.6	1.0	7.4	29.0	10<f≤50
26-03-24	14:51	0.9	4.2	1.1	4.8	0.6	8.1	20.0	f≤10
27-03-24	9:41	0.3	13.9	0.7	50.0	0.4	3.2	40.0	10<f≤50
27-03-24	10:46	0.4	11.4	0.8	11.9	0.5	12.5	21.3	10<f≤50
27-03-24	11:51	0.5	4.4	0.8	5.1	0.4	19.2	24.6	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440027  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : Mar 27-28, 2024 Sampling Point : Construction area  
 Received Date : Apr 01, 2024 Analytical Date : Apr 03, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
27-03-24	12:42	2.1	24.9	3.1	9.4	1.3	27.0	28.5	10<f≤50
27-03-24	13:49	2.9	25.0	2.4	0.8	2.3	7.4	27.5	10<f≤50
27-03-24	14:53	2.8	22.7	2.8	0.5	1.4	13.2	26.4	10<f≤50
28-03-24	9:21	6.4	1.3	4.4	9.6	1.3	13.0	21.5	10<f≤50
28-03-24	10:36	1.6	22.7	2.0	35.7	1.4	25.0	32.9	10<f≤50
28-03-24	11:41	6.8	41.7	2.8	0.6	1.2	31.3	35.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440028  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : Mar 28-29, 2024 Sampling Point : Construction area  
 Received Date : Apr 01, 2024 Analytical Date : Apr 03, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
28-03-24	12:53	0.9	11.9	0.2	1.6	0.8	12.5	21.3	10<f≤50
28-03-24	13:29	0.8	27.8	1.1	31.3	0.4	27.8	30.7	10<f≤50
28-03-24	14:45	1.1	25.0	0.2	50.0	0.8	22.7	40.0	10<f≤50
29-03-24	9:51	0.8	19.2	0.2	8.6	0.9	25.0	27.5	10<f≤50
29-03-24	10:46	0.9	13.9	0.1	17.9	0.9	13.9	24.0	10<f≤50
29-03-24	11:53	0.6	3.4	1.0	7.6	0.7	4.2	20.0	f≤10

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440029  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : Mar 29-30, 2024 Sampling Point : Construction area  
 Received Date : Apr 01, 2024 Analytical Date : Apr 03, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
29-03-24	12:48	1.2	17.9	0.2	0.6	0.8	14.7	24.0	10<f≤50
29-03-24	13:34	0.8	17.9	0.2	0.6	1.0	17.9	24.0	10<f≤50
29-03-24	14:35	1.0	11.9	0.2	0.4	0.9	15.6	22.8	10<f≤50
30-03-24	9:46	1.0	35.7	0.1	0.6	1.0	13.9	32.9	10<f≤50
30-03-24	10:49	1.1	14.9	0.6	18.1	1.0	14.8	24.1	10<f≤50
30-03-24	11:41	0.8	3.5	1.2	8.6	0.8	4.6	20.0	f≤10

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240410056  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : Apr 01-06, 2024 Sampling Point : Construction Area  
Received Date : Apr 08, 2024 Analytical Date : Apr 10, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good

Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	Apr 01-02, 2024	0.077	0.330
2	Total Suspended Paticulate (TSP)	Apr 02-03, 2024	0.074	0.330
3	Total Suspended Paticulate (TSP)	Apr 03-04, 2024	0.075	0.330
4	Total Suspended Paticulate (TSP)	Apr 04-05, 2024	0.073	0.330
5	Total Suspended Paticulate (TSP)	Apr 05-06, 2024	0.078	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

(Parinya Klumnoi)

Analyzed By :

(Nijjint Matiyapak)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240410057  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
 Sampling Date : Apr 01-06, 2024 Sampling Point : Construction Area  
 Received Date : Apr 08, 2024 Analytical Date : Apr 10, 2024  
 Sampling Method : US EPA 40 CFR 50 Sample Condition : Good

Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	Apr 01-02, 2024	0.043	0.120
2	Paticulate Matter < 10 micron (PM-10)	Apr 02-03, 2024	0.046	0.120
3	Paticulate Matter < 10 micron (PM-10)	Apr 03-04, 2024	0.043	0.120
4	Paticulate Matter < 10 micron (PM-10)	Apr 04-05, 2024	0.047	0.120
5	Paticulate Matter < 10 micron (PM-10)	Apr 05-06, 2024	0.048	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430131  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 1 - 2, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2019      Analytical Date : Apr 10, 2019  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.4	89.4	64.9
12:00 - 13:00	65.1	89.8	64.5
13:00 - 14:00	65.8	91.3	64.1
14:00 - 15:00	65.9	91.6	64.9
15:00 - 16:00	62.3	93.1	61.9
16:00 - 17:00	61.4	97.8	60.5
17:00 - 18:00	62.1	97.9	60.3
18:00 - 19:00	60.5	96.1	59.8
19:00 - 20:00	60.8	98.0	59.7
20:00 - 21:00	60.1	97.5	58.9
21:00 - 22:00	59.5	98.3	58.4
22:00 - 23:00	59.3	99.3	58.6
23:00 - 00:00	59.4	98.2	58.9
00:00 - 01:00	58.6	90.6	57.8
01:00 - 02:00	59.4	88.4	58.6
02:00 - 03:00	59.1	90.4	58.4
03:00 - 04:00	58.3	95.4	57.3
04:00 - 05:00	59.4	94.4	58.1
05:00 - 06:00	59.6	91.8	58.2
06:00 - 07:00	61.1	91.2	60.5
07:00 - 08:00	63.4	92.8	62.1
08:00 - 09:00	64.7	92.4	63.9
09:00 - 10:00	64.2	92.4	63.7
10:00 - 11:00	64.9	93.4	63.1
24 Hour	62.4	99.3	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full,  
 without written approval of Laboratory.\*\*\*



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430132  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 1-2, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2024      Analytical Date : Apr 10, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.4	64.9	58.4	52.1	6.3
12:00 - 13:00	65.1	64.5	58.1	52.9	5.2
13:00 - 14:00	65.8	64.1	61.3	53.5	7.8
14:00 - 15:00	65.9	64.9	58.9	52.5	6.4
15:00 - 16:00	62.3	61.9	55.3	52.1	3.2
16:00 - 17:00	61.4	60.5	54.4	51.7	2.7
17:00 - 18:00	62.1	60.3	57.6	52.9	4.7
18:00 - 19:00	60.5	59.8	53.5	52.6	0.9
19:00 - 20:00	60.8	59.7	53.8	50.9	2.9
20:00 - 21:00	60.1	58.9	53.1	50.5	2.6
21:00 - 22:00	59.5	58.4	52.5	51.4	1.1
22:00 - 23:00	59.3	58.6	52.3	49.6	2.7
23:00 - 00:00	59.4	58.9	52.4	49.8	2.6
00:00 - 01:00	58.6	57.8	51.6	50.9	0.7
01:00 - 02:00	59.4	58.6	52.4	50.4	2.0
02:00 - 03:00	59.1	58.4	52.1	49.5	2.6
03:00 - 04:00	58.3	57.3	51.3	49.7	1.6
04:00 - 05:00	59.4	58.1	52.4	51.2	1.2
05:00 - 06:00	59.6	58.2	52.6	51.6	1.0
06:00 - 07:00	61.1	60.5	54.1	51.3	2.8
07:00 - 08:00	63.4	62.1	56.4	52.5	3.9
08:00 - 09:00	64.7	63.9	57.7	52.6	5.1
09:00 - 10:00	64.2	63.7	57.2	54.7	2.5
10:00 - 11:00	64.9	63.1	60.4	53.9	6.5
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level  
 Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawat Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430133  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 2 - 3, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2024      Analytical Date : Apr 10, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	64.9	84.4	63.9
12:00 - 13:00	64.7	82.3	63.5
13:00 - 14:00	65.1	81.3	64.7
14:00 - 15:00	64.8	84.4	63.4
15:00 - 16:00	63.2	85.6	62.5
16:00 - 17:00	61.4	88.1	60.1
17:00 - 18:00	62.7	88.1	61.3
18:00 - 19:00	60.5	87.8	59.7
19:00 - 20:00	60.9	88.6	59.2
20:00 - 21:00	60.5	84.5	59.5
21:00 - 22:00	59.7	82.3	58.1
22:00 - 23:00	59.1	81.3	58.9
23:00 - 00:00	59.8	83.2	58.5
00:00 - 01:00	58.9	80.2	57.3
01:00 - 02:00	58.7	82.3	57.6
02:00 - 03:00	58.9	81.2	57.4
03:00 - 04:00	58.4	83.4	57.9
04:00 - 05:00	59.5	85.4	58.6
05:00 - 06:00	59.1	84.6	58.4
06:00 - 07:00	60.1	86.5	59.7
07:00 - 08:00	62.9	88.5	61.5
08:00 - 09:00	63.7	89.8	62.7
09:00 - 10:00	63.5	87.8	62.8
10:00 - 11:00	63.8	91.3	61.5
24 Hour	62.0	91.3	57.7
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430134  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 2-3, 2024 Sampling Point : Construction area  
 Received Date : Apr 8, 2024 Analytical Date : Apr 10, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	64.9	63.9	57.9	52.1	5.8
12:00 - 13:00	64.7	63.5	57.7	52.5	5.2
13:00 - 14:00	65.1	64.7	58.1	53.4	4.7
14:00 - 15:00	64.8	63.4	57.8	52.1	5.7
15:00 - 16:00	63.2	62.5	56.2	52.9	3.3
16:00 - 17:00	61.4	60.1	54.4	51.7	2.7
17:00 - 18:00	62.7	61.3	58.2	53.1	5.1
18:00 - 19:00	60.5	59.7	53.5	52.4	1.1
19:00 - 20:00	60.9	59.2	56.4	50.6	5.8
20:00 - 21:00	60.5	59.5	53.5	51.1	2.4
21:00 - 22:00	59.7	58.1	55.2	51.4	3.8
22:00 - 23:00	59.1	58.9	52.1	49.5	2.6
23:00 - 00:00	59.8	58.5	52.8	49.7	3.1
00:00 - 01:00	58.9	57.3	54.4	51.6	2.8
01:00 - 02:00	58.7	57.6	51.7	50.5	1.2
02:00 - 03:00	58.9	57.4	54.4	50.7	3.7
03:00 - 04:00	58.4	57.9	51.4	49.6	1.8
04:00 - 05:00	59.5	58.6	52.5	51.1	1.4
05:00 - 06:00	59.1	58.4	52.1	50.3	1.8
06:00 - 07:00	60.1	59.7	53.1	51.6	1.5
07:00 - 08:00	62.9	61.5	55.9	52.0	3.9
08:00 - 09:00	63.7	62.7	56.7	52.5	4.2
09:00 - 10:00	63.5	62.8	56.5	53.5	3.0
10:00 - 11:00	63.8	61.5	59.3	53.2	6.1
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatthai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430135  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 3 - 4, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2024      Analytical Date : Apr 10, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	64.5	70.4	63.5
12:00 - 13:00	64.1	70.9	63.1
13:00 - 14:00	65.5	67.6	64.5
14:00 - 15:00	64.9	69.6	63.2
15:00 - 16:00	63.5	69.3	62.6
16:00 - 17:00	61.7	72.1	60.5
17:00 - 18:00	62.8	75.7	61.4
18:00 - 19:00	60.6	72.6	59.8
19:00 - 20:00	60.1	72.2	59.5
20:00 - 21:00	60.3	77.5	59.6
21:00 - 22:00	59.5	71.4	58.4
22:00 - 23:00	59.3	75.5	58.6
23:00 - 00:00	59.2	76.4	58.1
00:00 - 01:00	58.8	81.3	57.9
01:00 - 02:00	58.9	73.4	57.6
02:00 - 03:00	58.4	73.3	57.0
03:00 - 04:00	58.2	77.0	57.7
04:00 - 05:00	59.6	74.6	58.4
05:00 - 06:00	59.5	73.1	58.2
06:00 - 07:00	60.2	73.9	59.6
07:00 - 08:00	62.4	73.4	61.1
08:00 - 09:00	63.1	75.0	62.2
09:00 - 10:00	63.6	75.0	62.5
10:00 - 11:00	63.8	84.5	61.9
24 Hour	62.0	84.5	57.8
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 270, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Nawalee Chongvachana)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full,  
 without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430136  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 3-4, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2024      Analytical Date : Apr 10, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	64.5	63.5	57.5	52.1	5.4
12:00 - 13:00	64.1	63.1	57.1	52.4	4.7
13:00 - 14:00	65.5	64.5	58.5	53.2	5.3
14:00 - 15:00	64.9	63.2	60.4	52.3	8.1
15:00 - 16:00	63.5	62.6	56.5	52.8	3.7
16:00 - 17:00	61.7	60.5	54.7	51.4	3.3
17:00 - 18:00	62.8	61.4	55.8	53.6	2.2
18:00 - 19:00	60.6	59.8	53.6	52.7	0.9
19:00 - 20:00	60.1	59.5	53.1	50.3	2.8
20:00 - 21:00	60.3	59.6	53.3	51.6	1.7
21:00 - 22:00	59.5	58.4	52.5	51.5	1.0
22:00 - 23:00	59.3	58.6	52.3	49.7	2.6
23:00 - 00:00	59.2	58.1	52.2	49.6	2.6
00:00 - 01:00	58.8	57.9	51.8	49.4	2.4
01:00 - 02:00	58.9	57.6	51.9	50.6	1.3
02:00 - 03:00	58.4	57.0	51.4	50.8	0.6
03:00 - 04:00	58.2	57.7	51.2	49.7	1.5
04:00 - 05:00	59.6	58.4	52.6	49.5	3.1
05:00 - 06:00	59.5	58.2	52.5	50.7	1.8
06:00 - 07:00	60.2	59.6	53.2	51.3	1.9
07:00 - 08:00	62.4	61.1	55.4	52.7	2.7
08:00 - 09:00	63.1	62.2	56.1	52.9	3.2
09:00 - 10:00	63.6	62.5	56.6	53.7	2.9
10:00 - 11:00	63.8	61.9	59.3	53.7	5.6
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawat Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430137  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 4 - 5, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2024      Analytical Date : Apr 10, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.5	80.9	63.5
12:00 - 13:00	65.1	78.3	64.5
13:00 - 14:00	65.9	79.8	64.7
14:00 - 15:00	64.6	80.6	63.9
15:00 - 16:00	63.7	77.8	62.5
16:00 - 17:00	61.5	78.7	60.7
17:00 - 18:00	62.9	81.2	61.9
18:00 - 19:00	60.3	77.7	59.2
19:00 - 20:00	60.5	77.1	59.7
20:00 - 21:00	60.7	77.0	59.6
21:00 - 22:00	59.4	75.2	58.9
22:00 - 23:00	59.2	73.5	58.1
23:00 - 00:00	59.8	80.4	58.6
00:00 - 01:00	58.6	77.3	57.1
01:00 - 02:00	58.1	79.4	57.9
02:00 - 03:00	58.9	80.3	57.6
03:00 - 04:00	58.6	77.6	57.1
04:00 - 05:00	59.1	90.3	58.3
05:00 - 06:00	59.7	79.0	58.9
06:00 - 07:00	60.3	80.1	58.6
07:00 - 08:00	62.4	78.6	61.5
08:00 - 09:00	63.5	83.0	62.9
09:00 - 10:00	63.8	79.0	62.1
10:00 - 11:00	63.4	90.2	62.7
24 Hour	62.2	90.3	57.7
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430138  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 4-5, 2024      Sampling Point : Construction area  
 Received Date : Apr 8, 2024      Analytical Date : Apr 10, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.5	63.5	61.0	52.1	8.9
12:00 - 13:00	65.1	64.5	58.1	52.4	5.7
13:00 - 14:00	65.9	64.7	58.9	53.2	5.7
14:00 - 15:00	64.6	63.9	57.6	52.3	5.3
15:00 - 16:00	63.7	62.5	56.7	52.8	3.9
16:00 - 17:00	61.5	60.7	54.5	51.4	3.1
17:00 - 18:00	62.9	61.9	55.9	53.6	2.3
18:00 - 19:00	60.3	59.2	53.3	52.7	0.6
19:00 - 20:00	60.5	59.7	53.5	50.3	3.2
20:00 - 21:00	60.7	59.6	53.7	51.6	2.1
21:00 - 22:00	59.4	58.9	52.4	51.5	0.9
22:00 - 23:00	59.2	58.1	52.2	49.7	2.5
23:00 - 00:00	59.8	58.6	52.8	49.6	3.2
00:00 - 01:00	58.6	57.1	54.1	49.4	4.7
01:00 - 02:00	58.1	57.9	51.1	50.6	0.5
02:00 - 03:00	58.9	57.6	51.9	50.8	1.1
03:00 - 04:00	58.6	57.1	54.1	49.7	4.4
04:00 - 05:00	59.1	58.3	52.1	49.5	2.6
05:00 - 06:00	59.7	58.9	52.7	50.7	2.0
06:00 - 07:00	60.3	58.6	55.8	51.3	4.5
07:00 - 08:00	62.4	61.5	55.4	52.7	2.7
08:00 - 09:00	63.5	62.9	56.5	52.9	3.6
09:00 - 10:00	63.8	62.1	59.3	53.4	5.9
10:00 - 11:00	63.4	62.7	56.4	53.7	2.7
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430139  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 5 - 6, 2024 Sampling Point : Construction area  
 Received Date : Apr 8, 2024 Analytical Date : Apr 10, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	77.6	64.2
12:00 - 13:00	65.3	78.4	64.0
13:00 - 14:00	65.7	79.5	64.5
14:00 - 15:00	65.5	93.0	64.7
15:00 - 16:00	62.4	77.4	61.2
16:00 - 17:00	61.9	79.5	60.9
17:00 - 18:00	62.8	79.6	61.1
18:00 - 19:00	60.2	78.1	59.5
19:00 - 20:00	60.1	79.3	59.1
20:00 - 21:00	60.6	80.6	58.6
21:00 - 22:00	59.2	80.1	58.4
22:00 - 23:00	59.6	80.4	58.2
23:00 - 00:00	59.1	81.0	58.6
00:00 - 01:00	58.2	81.3	57.5
01:00 - 02:00	59.3	80.8	58.9
02:00 - 03:00	59.5	80.1	58.2
03:00 - 04:00	58.6	79.2	57.6
04:00 - 05:00	59.5	79.3	58.5
05:00 - 06:00	59.7	79.1	58.4
06:00 - 07:00	60.5	79.5	60.4
07:00 - 08:00	62.1	79.3	61.4
08:00 - 09:00	63.7	81.1	62.7
09:00 - 10:00	63.6	80.3	62.2
10:00 - 11:00	64.0	81.3	63.1
24 Hour	62.2	93.0	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430140  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 5-6, 2024 Sampling Point : Construction area  
 Received Date : Apr 8, 2024 Analytical Date : Apr 10, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.2	58.1	52.4	5.7
12:00 - 13:00	65.3	64.0	58.3	52.7	5.6
13:00 - 14:00	65.7	64.5	58.7	53.4	5.3
14:00 - 15:00	65.5	64.7	58.5	52.9	5.6
15:00 - 16:00	62.4	61.2	55.4	52.5	2.9
16:00 - 17:00	61.9	60.9	54.9	51.9	3.0
17:00 - 18:00	62.8	61.1	58.3	52.8	5.5
18:00 - 19:00	60.2	59.5	53.2	52.0	1.2
19:00 - 20:00	60.1	59.1	53.1	50.9	2.2
20:00 - 21:00	60.6	58.6	56.1	50.5	5.6
21:00 - 22:00	59.2	58.4	52.2	51.2	1.0
22:00 - 23:00	59.6	58.2	52.6	49.7	2.9
23:00 - 00:00	59.1	58.6	52.1	49.5	2.6
00:00 - 01:00	58.2	57.5	51.2	49.7	1.5
01:00 - 02:00	59.3	58.9	52.3	50.6	1.7
02:00 - 03:00	59.5	58.2	52.5	49.7	2.8
03:00 - 04:00	58.6	57.6	51.6	49.6	2.0
04:00 - 05:00	59.5	58.5	52.5	51.4	1.1
05:00 - 06:00	59.7	58.4	52.7	51.7	1.0
06:00 - 07:00	60.5	60.4	53.5	51.3	2.2
07:00 - 08:00	62.1	61.4	55.1	52.6	2.5
08:00 - 09:00	63.7	62.7	56.7	52.1	4.6
09:00 - 10:00	63.6	62.2	56.6	54.9	1.7
10:00 - 11:00	64.0	63.1	57.0	53.7	3.3
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchail Chongvutichai)



## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440030
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 1-2, 2024	Sampling Point	: Construction area
Received Date	: Apr 08, 2024	Analytical Date	: Apr 10, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
01-04-24	12:19	1.1	9.6	1.1	11.9	1.0	15.6	22.8	10<f≤50
01-04-24	13:26	2.7	31.3	1.2	11.4	2.3	50.0	40.0	10<f≤50
01-04-24	14:14	0.5	13.2	0.2	19.2	0.9	22.7	26.4	10<f≤50
02-04-24	9:33	0.7	11.4	0.2	27.8	1.7	12.5	28.9	10<f≤50
02-04-24	10:35	0.8	24.6	1.3	27.6	0.8	9.0	28.8	10<f≤50
02-04-24	11:38	0.7	26.7	1.0	4.4	0.8	7.8	28.4	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnnoi)

Approved By :

(Tavatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440031
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 2-3, 2024	Sampling Point	: Construction area
Received Date	: Apr 08, 2024	Analytical Date	: Apr 10, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
02-05-24	12:34	0.6	22.5	2.7	15.9	0.5	2.7	26.3	10<f≤50
02-05-24	13:57	0.8	33.4	3.6	51.2	11.8	38.8	40.2	50<f≤100
02-05-24	14:29	0.3	7.3	2.4	14.9	1.1	20.7	25.4	10<f≤50
03-05-24	9:14	0.4	10.4	0.8	27.8	0.6	41.7	35.9	10<f≤50
03-05-24	10:35	0.5	10.4	0.7	10.9	0.6	13.2	21.6	10<f≤50
03-05-24	11:48	0.3	35.7	0.5	31.3	0.2	9.6	32.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnnoi)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440032
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 3-4, 2024	Sampling Point	: Construction area
Received Date	: Apr 08, 2024	Analytical Date	: Apr 10, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
03-04-24	12:50	2.5	5.7	2.4	27.8	4.0	5.6	28.9	10<f≤50
03-04-24	13:46	4.4	31.3	2.4	50.0	10.8	27.8	40.0	10<f≤50
03-04-24	14:29	5.7	14.7	0.2	50.0	6.7	27.8	40.0	10<f≤50
04-04-24	9:14	0.4	10.4	0.8	27.8	0.6	41.7	35.9	10<f≤50
04-04-24	10:15	0.2	9.6	0.5	31.3	0.3	10.9	30.7	10<f≤50
04-04-24	11:49	0.3	35.7	0.6	50.0	0.3	16.7	40.0	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440033
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 4-5, 2024	Sampling Point	: Construction area
Received Date	: Apr 08, 2024	Analytical Date	: Apr 10, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
04-04-24	12:20	0.1	14.0	0.2	11.0	1.0	18.0	24.0	10<f≤50
04-04-24	13:23	0.8	12.0	0.9	9.6	0.5	7.5	21.0	10<f≤50
04-04-24	14:33	1.4	31.3	0.4	14.7	0.8	31.3	30.7	10<f≤50
05-04-24	9:14	0.2	11.4	0.5	35.7	0.3	15.6	32.9	10<f≤50
05-04-24	10:55	0.3	10.4	0.7	28.7	0.5	20.8	29.4	10<f≤50
05-04-24	11:59	0.2	27.8	0.6	11.9	0.2	13.9	28.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :   
 (Parinya Klumnoi)

Approved By :   
 (Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440034
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 5-6, 2024	Sampling Point	: Construction area
Received Date	: Apr 08, 2024	Analytical Date	: Apr 10, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
05-04-24	12:00	0.6	20.8	0.1	31.1	1.3	22.7	30.6	10<f≤50
05-04-24	13:58	12.8	6.1	2.0	27.8	14.0	50.0	40.0	10<f≤50
05-04-24	14:13	0.8	11.9	0.2	17.5	0.6	31.3	30.7	10<f≤50
06-04-24	9:03	0.7	16.7	0.2	6.1	0.8	12.5	23.4	10<f≤50
06-04-24	10:00	0.3	22.7	0.7	50.0	0.3	10.9	40.0	10<f≤50
06-04-24	11:28	0.5	27.8	0.7	50.0	0.5	4.7	40.0	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240410058  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : Apr 08-10, 2024 Sampling Point : Construction Area  
Received Date : Apr 11, 2024 Analytical Date : Apr 17, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good

Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	Apr 08-09, 2024	0.075	0.330
2	Total Suspended Paticulate (TSP)	Apr 09-10, 2024	0.077	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

(Tanyasakornnoi)

Analyzed By :

(Nijinart Matiyapak)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240410059  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
 Sampling Date : Apr 08-10, 2024 Sampling Point : Construction Area  
 Received Date : Apr 11, 2024 Analytical Date : Apr 17, 2024  
 Sampling Method : US EPA 40 CFR 50 Sample Condition : Good

Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	Apr 08-09, 2024	0.049	0.120
2	Paticulate Matter < 10 micron (PM-10)	Apr 09-10, 2024	0.047	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)



### AMBIENT AIR MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240420001  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 8-9, 2024 Sampling Point : Construction area  
 Received Date : Apr 10, 2024 Analytical Date : Apr 17, 2024  
 SO<sub>2</sub> Analyzer : HORIBA-APSA-370 Serial No. : 5FBMA08V  
 NO<sub>2</sub> Analyzer : HORIBA-APNA-370 Serial No. : 36WA70V3  
 CO Analyzer : TAPI-300E Serial No. : 226

Interval Time	SO <sub>2</sub> Average 1-Hour concentration (ppm)	NO <sub>2</sub> Average 1-Hour concentration (ppm)	CO Average 1-Hour concentration (ppm)
11:00 - 12:00	0.000	0.003	0.040
12:00 - 13:00	0.001	0.008	0.040
13:00 - 14:00	0.001	0.009	0.042
14:00 - 15:00	0.001	0.046	0.041
15:00 - 16:00	0.001	0.036	0.042
16:00 - 17:00	0.001	0.062	0.013
17:00 - 18:00	0.000	0.050	0.008
18:00 - 19:00	0.000	0.073	0.005
19:00 - 20:00	0.001	0.026	0.006
20:00 - 21:00	0.000	0.005	0.005
21:00 - 22:00	0.001	0.002	0.004
22:00 - 23:00	0.001	0.002	0.002
23:00 - 00:00	0.001	0.002	0.003
00:00 - 01:00	0.000	0.005	0.002
01:00 - 02:00	0.000	0.001	0.003
02:00 - 03:00	0.000	0.002	0.005
03:00 - 04:00	0.001	0.001	0.010
04:00 - 05:00	0.001	0.002	0.012
05:00 - 06:00	0.001	0.003	0.041
06:00 - 07:00	0.001	0.003	0.040
07:00 - 08:00	0.000	0.002	0.023
08:00 - 09:00	0.001	0.013	0.036
09:00 - 10:00	0.001	0.057	0.050
10:00 - 11:00	0.001	0.041	0.036
Min - Max	0-0.001	0.001-0.073	0.002-0.05
Standard 1 Hr	0.30 <sup>1/</sup>	0.17 <sup>2/</sup>	30 <sup>3/</sup>

Remark: <sup>1/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ.2544) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศทั่วไปในเวลา 1 ชั่วโมง  
<sup>2/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ.2552) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป  
<sup>3/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 10 (พ.ศ.2538) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchai Chongvutichai)



ห้องปฏิบัติการวิเคราะห์เอกชน บริษัท โอกลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด

63/13 เพชรเกษม ซอย 7 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

โทร: (66)02-868-1246 โทรสาร: (66)02-868-1247 Website: [www.okla-testing.com](http://www.okla-testing.com) J-NAC Group

ANALYSIS REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240420002  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Amphur  
Sampling Date : Apr 8-9, 2024 Sampling Point : Construction area  
Received Date : Apr 10, 2024 Analytical Date : Apr 17, 2024  
Analyzer : THC HORIBA APHA-370 Serial No. : LY1L4PRX  
Sample Condition : Drawn into one 10-L air sampling bag

Parameter	Result	Method
Methane; CH <sub>4</sub> (ppm)	1.692	Flame Ionization
Non-Methane; NMHC (ppm)	1.800	Flame Ionization
Total Hydrocarbon; THC (ppm)	3.492	Flame Ionization

Analyzed By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430141  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 8 - 9, 2024      Sampling Point : Construction area  
 Received Date : Apr 11, 2019      Analytical Date : Apr 17, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	86.3	64.2
12:00 - 13:00	65.7	87.1	64.5
13:00 - 14:00	65.3	85.5	64.1
14:00 - 15:00	64.7	84.5	63.7
15:00 - 16:00	63.2	87.1	61.5
16:00 - 17:00	61.5	93.3	60.7
17:00 - 18:00	62.7	91.9	61.3
18:00 - 19:00	60.9	93.2	59.7
19:00 - 20:00	60.2	92.1	59.5
20:00 - 21:00	60.5	92.4	58.6
21:00 - 22:00	59.5	86.9	58.9
22:00 - 23:00	59.7	89.9	57.6
23:00 - 00:00	59.3	86.8	57.4
00:00 - 01:00	58.1	85.4	57.2
01:00 - 02:00	59.5	88.9	58.4
02:00 - 03:00	59.7	85.7	58.6
03:00 - 04:00	58.9	86.1	57.9
04:00 - 05:00	59.6	85.4	58.6
05:00 - 06:00	59.4	85.8	58.2
06:00 - 07:00	61.1	85.5	60.1
07:00 - 08:00	63.2	86.6	62.3
08:00 - 09:00	64.5	85.8	63.4
09:00 - 10:00	64.3	87.1	62.1
10:00 - 11:00	64.6	85.8	63.4
24 Hour	62.4	93.3	57.7
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Kiumnoi)

Approved By:

(Tawatchai Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430144  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 9-10, 2024 Sampling Point : Construction area  
 Received Date : Apr 11, 2024 Analytical Date : Apr 17, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	64.7	63.4	57.7	51.6	6.1
12:00 - 13:00	65.9	64.1	61.4	53.4	8.0
13:00 - 14:00	65.2	64.5	58.2	53.9	4.3
14:00 - 15:00	64.3	63.2	57.3	53.1	4.2
15:00 - 16:00	63.5	62.1	56.5	52.7	3.8
16:00 - 17:00	61.4	60.3	54.4	51.9	2.5
17:00 - 18:00	62.5	61.5	55.5	52.2	3.3
18:00 - 19:00	60.3	59.2	53.3	52.6	0.7
19:00 - 20:00	60.7	59.7	53.7	51.4	2.3
20:00 - 21:00	60.1	58.2	55.6	50.2	5.4
21:00 - 22:00	59.9	58.9	52.9	49.7	3.2
22:00 - 23:00	59.5	58.7	52.5	49.3	3.2
23:00 - 00:00	59.6	58.6	52.6	49.9	2.7
00:00 - 01:00	58.5	57.9	51.5	49.7	1.8
01:00 - 02:00	59.1	58.1	52.1	50.1	2.0
02:00 - 03:00	59.3	58.3	52.3	49.7	2.6
03:00 - 04:00	58.7	57.0	54.2	49.3	4.9
04:00 - 05:00	59.4	58.1	52.4	51.3	1.1
05:00 - 06:00	59.1	58.6	52.1	51.1	1.0
06:00 - 07:00	60.0	59.2	53.0	52.2	0.8
07:00 - 08:00	61.7	60.1	57.2	52.1	5.1
08:00 - 09:00	63.4	62.5	56.4	52.0	4.4
09:00 - 10:00	63.5	61.7	59.0	54.7	4.3
10:00 - 11:00	64.4	61.9	61.4	55.1	6.3
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnnoi)

Approved By:

(Tawatchai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN24030143  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 9 - 10, 2024 Sampling Point : Construction area  
 Received Date : Apr 11, 2024 Analytical Date : Apr 17, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	64.7	87.3	63.4
12:00 - 13:00	65.9	84.7	64.1
13:00 - 14:00	65.2	88.4	64.5
14:00 - 15:00	64.3	84.3	63.2
15:00 - 16:00	63.5	83.9	62.1
16:00 - 17:00	61.4	89.7	60.3
17:00 - 18:00	62.5	89.7	61.5
18:00 - 19:00	60.3	88.0	59.2
19:00 - 20:00	60.7	88.0	59.7
20:00 - 21:00	60.1	88.1	58.2
21:00 - 22:00	59.9	87.6	58.9
22:00 - 23:00	59.5	75.4	58.7
23:00 - 00:00	59.6	77.6	58.6
00:00 - 01:00	58.5	81.9	57.9
01:00 - 02:00	59.1	81.6	58.1
02:00 - 03:00	59.3	82.9	58.3
03:00 - 04:00	58.7	81.8	57.0
04:00 - 05:00	59.4	82.6	58.1
05:00 - 06:00	59.1	87.5	58.6
06:00 - 07:00	60.0	86.1	59.2
07:00 - 08:00	61.7	80.9	60.1
08:00 - 09:00	63.4	81.6	62.5
09:00 - 10:00	63.5	85.1	61.7
10:00 - 11:00	64.4	81.5	61.9
24 Hour	62.1	89.7	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430142  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 8-9, 2024      Sampling Point : Construction area  
 Received Date : Apr 11, 2024      Analytical Date : Apr 17, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.2	58.1	53.1	5.0
12:00 - 13:00	65.7	64.5	58.7	52.4	6.3
13:00 - 14:00	65.3	64.1	58.3	53.6	4.7
14:00 - 15:00	64.7	63.7	57.7	52.7	5.0
15:00 - 16:00	63.2	61.5	58.7	52.6	6.1
16:00 - 17:00	61.5	60.7	54.5	51.8	2.7
17:00 - 18:00	62.7	61.3	58.2	53.0	5.2
18:00 - 19:00	60.9	59.7	53.9	52.9	1.0
19:00 - 20:00	60.2	59.5	53.2	51.6	1.6
20:00 - 21:00	60.5	58.6	56.0	50.6	5.4
21:00 - 22:00	59.5	58.9	52.5	51.7	0.8
22:00 - 23:00	59.7	57.6	55.2	49.6	5.6
23:00 - 00:00	59.3	57.4	54.8	49.5	5.3
00:00 - 01:00	58.1	57.2	51.1	49.7	1.4
01:00 - 02:00	59.5	58.4	52.5	50.1	2.4
02:00 - 03:00	59.7	58.6	52.7	49.7	3.0
03:00 - 04:00	58.9	57.9	51.9	49.3	2.6
04:00 - 05:00	59.6	58.6	52.6	51.1	1.5
05:00 - 06:00	59.4	58.2	52.4	51.9	0.5
06:00 - 07:00	61.1	60.1	54.1	51.5	2.6
07:00 - 08:00	63.2	62.3	56.2	52.7	3.5
08:00 - 09:00	64.5	63.4	57.5	52.9	4.6
09:00 - 10:00	64.3	62.1	59.8	54.1	5.7
10:00 - 11:00	64.6	63.4	57.6	53.6	4.0
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:



(Parinya Klumnoi)

Approved By:





## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440035
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 8-9, 2024	Sampling Point	: Construction area
Received Date	: Apr 11, 2024	Analytical Date	: Apr 17, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
08-04-24	12:29	0.4	10.4	0.8	27.8	0.6	41.7	35.9	10<f≤50
08-04-24	13:38	0.7	50.0	1.1	41.7	0.6	7.8	40.0	10<f≤50
08-04-24	14:23	0.3	31.3	0.6	3.4	0.5	6.1	30.7	10<f≤50
09-04-24	9:34	0.4	6.6	0.9	13.9	0.7	19.2	24.6	10<f≤50
09-04-24	10:26	0.4	16.7	0.5	15.6	0.4	9.6	23.4	10<f≤50
09-04-24	11:48	0.3	22.7	0.7	35.7	0.5	10.0	32.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Ravvachai Chongvutchai)

## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440036  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : Apr 9-10, 2024 Sampling Point : Construction area  
 Received Date : Apr 11, 2024 Analytical Date : Apr 17, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
09-04-24	12:39	0.5	11.2	0.7	28.7	0.7	40.2	35.1	10<f≤50
09-04-24	13:42	0.8	48.0	1.6	43.7	0.7	7.9	39.0	10<f≤50
09-04-24	14:53	0.5	33.0	0.7	5.0	0.6	6.3	31.5	10<f≤50
10-04-24	9:49	0.7	7.6	1.0	14.5	0.8	20.3	25.2	10<f≤50
10-04-24	10:40	0.5	17.8	0.7	16.1	0.7	10.7	23.9	10<f≤50
10-04-24	11:38	0.5	24.2	0.9	36.7	0.6	11.2	33.4	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

**Project** : The Panora Baan-Ampher **Report No.** : RN240410060  
**Sampling Source** : Ambient Air Quality **Sampling Location** : The Panora Baan-Ampher  
**Sampling Date** : Apr 17-20, 2024 **Sampling Point** : Construction Area  
**Received Date** : Apr 22, 2024 **Analytical Date** : Apr 24, 2024  
**Sampling Method** : US EPA 40 CFR 50 **Sample Condition** : Good

**Method of Analysis** : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	Apr 17-18, 2024	0.077	0.330
2	Total Suspended Paticulate (TSP)	Apr 18-19, 2024	0.076	0.330
3	Total Suspended Paticulate (TSP)	Apr 19-20, 2024	0.079	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

(Parinya Klumnoi)

Analyzed By :

(Nijinart Matiyapak)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240410061  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : Apr 17-20, 2024 Sampling Point : Construction Area  
Received Date : Apr 22, 2024 Analytical Date : Apr 24, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	Apr 17-18, 2024	0.045	0.120
2	Paticulate Matter < 10 micron (PM-10)	Apr 18-19, 2024	0.048	0.120
3	Paticulate Matter < 10 micron (PM-10)	Apr 19-20, 2024	0.045	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

(Parinya Klumnoi)

Analyzed By :

(Nijinart Matiyapak)

Approved By :

(Tawatchai Chongvutichai)





ห้องปฏิบัติการวิเคราะห์เอกชน บริษัท โอกลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด

63/13 เพชรเกษม ซอย 7 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

โทร: (66)02-868-1246

โทรสาร: (66)02-868-1247

Website: [www.okla-testing.com](http://www.okla-testing.com)

J-NAC Group

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430145  
Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
Sampling Date : Apr 17 - 18, 2024 Sampling Point : Construction area  
Received Date : Apr 22, 2024 Analytical Date : Apr 24, 2024  
Sampling Method : - Sampling Condition : Good  
Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.2	85.2	64.1
12:00 - 13:00	65.7	85.1	64.0
13:00 - 14:00	65.1	86.1	64.5
14:00 - 15:00	64.5	88.3	63.4
15:00 - 16:00	63.7	88.7	61.6
16:00 - 17:00	61.2	89.4	60.8
17:00 - 18:00	62.7	85.7	61.5
18:00 - 19:00	60.1	85.7	59.6
19:00 - 20:00	60.9	81.3	59.8
20:00 - 21:00	60.5	87.2	59.7
21:00 - 22:00	59.1	87.1	58.6
22:00 - 23:00	59.6	81.5	58.4
23:00 - 00:00	59.5	84.8	58.1
00:00 - 01:00	58.6	89.3	57.9
01:00 - 02:00	59.2	88.1	58.9
02:00 - 03:00	59.1	82.4	58.4
03:00 - 04:00	58.6	88.8	57.5
04:00 - 05:00	59.4	88.7	58.9
05:00 - 06:00	59.7	88.2	58.6
06:00 - 07:00	61.5	84.4	60.1
07:00 - 08:00	63.4	84.3	62.3
08:00 - 09:00	64.7	87.4	63.6
09:00 - 10:00	64.1	81.6	62.7
10:00 - 11:00	64.9	83.2	63.5
24 Hour	62.4	89.4	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
(Parinya Klumnoi)

Approved By:

  
(Tawatchai Chongutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430146  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 17-18, 2024 Sampling Point : Construction area  
 Received Date : Apr 22, 2024 Analytical Date : Apr 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.2	64.1	58.2	53.2	5.0
12:00 - 13:00	65.7	64.0	61.2	52.6	8.6
13:00 - 14:00	65.1	64.5	58.1	53.8	4.3
14:00 - 15:00	64.5	63.4	57.5	52.9	4.6
15:00 - 16:00	63.7	61.6	59.2	52.7	6.5
16:00 - 17:00	61.2	60.8	54.2	51.9	2.3
17:00 - 18:00	62.7	61.5	55.7	53.5	2.2
18:00 - 19:00	60.1	59.6	53.1	51.5	1.6
19:00 - 20:00	60.9	59.8	53.9	50.5	3.4
20:00 - 21:00	60.5	59.7	53.5	50.7	2.8
21:00 - 22:00	59.1	58.6	52.1	50.2	1.9
22:00 - 23:00	59.6	58.4	52.6	49.4	3.2
23:00 - 00:00	59.5	58.1	52.5	49.6	2.9
00:00 - 01:00	58.6	57.9	51.6	49.1	2.5
01:00 - 02:00	59.2	58.9	52.2	50.1	2.1
02:00 - 03:00	59.1	58.4	52.1	49.3	2.8
03:00 - 04:00	58.6	57.5	51.6	49.7	1.9
04:00 - 05:00	59.4	58.9	52.4	51.3	1.1
05:00 - 06:00	59.7	58.6	52.7	51.7	1.0
06:00 - 07:00	61.5	60.1	54.5	51.6	2.9
07:00 - 08:00	63.4	62.3	56.4	52.7	3.7
08:00 - 09:00	64.7	63.6	57.7	52.1	5.6
09:00 - 10:00	64.1	62.7	57.1	53.9	3.2
10:00 - 11:00	64.9	63.5	60.4	53.6	6.8
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430147  
Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
Sampling Date : Apr 18 - 19, 2024 Sampling Point : Construction area  
Received Date : Apr 22, 2024 Analytical Date : Apr 24, 2024  
Sampling Method : - Sampling Condition : Good  
Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.5	81.2	65.4
12:00 - 13:00	66.2	79.6	65.5
13:00 - 14:00	65.1	80.0	64.1
14:00 - 15:00	65.3	82.3	64.8
15:00 - 16:00	62.1	80.7	61.3
16:00 - 17:00	61.5	81.2	60.7
17:00 - 18:00	61.9	79.9	60.5
18:00 - 19:00	60.3	81.7	58.9
19:00 - 20:00	59.5	82.3	58.1
20:00 - 21:00	59.3	82.9	58.0
21:00 - 22:00	59.5	79.1	58.3
22:00 - 23:00	59.3	82.2	58.4
23:00 - 00:00	58.5	80.5	57.4
00:00 - 01:00	59.6	79.8	58.6
01:00 - 02:00	59.7	79.9	58.9
02:00 - 03:00	58.9	81.4	58.4
03:00 - 04:00	59.1	80.9	58.1
04:00 - 05:00	59.1	80.9	58.3
05:00 - 06:00	59.7	81.1	58.7
06:00 - 07:00	60.1	81.1	58.9
07:00 - 08:00	61.0	80.4	60.2
08:00 - 09:00	64.1	82.9	63.0
09:00 - 10:00	65.1	82.2	64.7
10:00 - 11:00	65.2	80.3	64.6
24 Hour	62.4	82.9	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
(Pannya Ktumnoi)

Approved By:

  
(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430148  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 18-19, 2024      Sampling Point : Construction area  
 Received Date : Apr 22, 2024      Analytical Date : Apr 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.5	65.4	59.5	52.7	6.8
12:00 - 13:00	66.2	65.5	59.2	53.6	5.6
13:00 - 14:00	65.1	64.1	58.1	53.4	4.7
14:00 - 15:00	65.3	64.8	58.3	50.1	8.2
15:00 - 16:00	62.1	61.3	55.1	51.7	3.4
16:00 - 17:00	61.5	60.7	54.5	51.9	2.6
17:00 - 18:00	61.9	60.5	54.9	52.5	2.4
18:00 - 19:00	60.3	58.9	53.3	51.9	1.4
19:00 - 20:00	59.5	58.1	52.5	50.5	2.0
20:00 - 21:00	59.3	58.0	52.3	50.3	2.0
21:00 - 22:00	59.5	58.3	52.5	51.6	0.9
22:00 - 23:00	59.3	58.4	52.3	49.7	2.6
23:00 - 00:00	58.5	57.4	51.5	49.5	2.0
00:00 - 01:00	59.6	58.6	52.6	50.7	1.9
01:00 - 02:00	59.7	58.9	52.7	49.7	3.0
02:00 - 03:00	58.9	58.4	51.9	49.6	2.3
03:00 - 04:00	59.1	58.1	52.1	49.9	2.2
04:00 - 05:00	59.1	58.3	52.1	50.2	1.9
05:00 - 06:00	59.7	58.7	52.7	51.4	1.3
06:00 - 07:00	60.1	58.9	53.1	51.2	1.9
07:00 - 08:00	61.0	60.2	54.0	51.4	2.6
08:00 - 09:00	64.1	63.0	57.1	51.6	5.5
09:00 - 10:00	65.1	64.7	58.1	52.7	5.4
10:00 - 11:00	65.2	64.6	58.2	52.6	5.6
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnnoi)

Approved By:

(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430149  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 19 - 20, 2024      Sampling Point : Construction area  
 Received Date : Apr 22, 2024      Analytical Date : Apr 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.1	80.8	65.3
12:00 - 13:00	66.5	82.0	65.4
13:00 - 14:00	65.4	79.8	64.7
14:00 - 15:00	65.8	83.7	64.9
15:00 - 16:00	62.9	79.7	61.5
16:00 - 17:00	61.7	82.8	60.9
17:00 - 18:00	62.4	81.4	60.1
18:00 - 19:00	60.5	81.8	58.8
19:00 - 20:00	60.9	81.3	59.5
20:00 - 21:00	59.7	79.4	58.7
21:00 - 22:00	59.8	80.1	58.9
22:00 - 23:00	59.6	78.7	58.3
23:00 - 00:00	58.8	79.9	57.8
00:00 - 01:00	59.9	79.3	58.9
01:00 - 02:00	59.2	79.3	58.7
02:00 - 03:00	59.1	80.4	58.6
03:00 - 04:00	59.4	93.3	58.5
04:00 - 05:00	59.5	78.9	58.1
05:00 - 06:00	60.1	81.3	58.9
06:00 - 07:00	61.5	81.1	58.4
07:00 - 08:00	61.2	79.6	60.1
08:00 - 09:00	64.3	80.2	63.5
09:00 - 10:00	65.4	82.1	64.2
10:00 - 11:00	65.3	81.3	64.9
24 Hour	62.7	93.3	58.3
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 270, B.E.2540

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430150  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 19-20, 2024      Sampling Point : Construction area  
 Received Date : Apr 22, 2024      Analytical Date : Apr 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.1	65.3	59.1	52.9	6.2
12:00 - 13:00	66.5	65.4	59.5	53.4	6.1
13:00 - 14:00	65.4	64.7	58.4	53.9	4.5
14:00 - 15:00	65.8	64.9	58.8	52.5	6.3
15:00 - 16:00	62.9	61.5	55.9	51.4	4.5
16:00 - 17:00	61.7	60.9	54.7	51.9	2.8
17:00 - 18:00	62.4	60.1	57.9	52.8	5.1
18:00 - 19:00	60.5	58.8	56.0	51.9	4.1
19:00 - 20:00	60.9	59.5	53.9	50.7	3.2
20:00 - 21:00	59.7	58.7	52.7	50.6	2.1
21:00 - 22:00	59.8	58.9	52.8	51.1	1.7
22:00 - 23:00	59.6	58.3	52.6	49.7	2.9
23:00 - 00:00	58.8	57.8	51.8	49.2	2.6
00:00 - 01:00	59.9	58.9	52.9	49.7	3.2
01:00 - 02:00	59.2	58.7	52.2	49.3	2.9
02:00 - 03:00	59.1	58.6	52.1	49.1	3.0
03:00 - 04:00	59.4	58.5	52.4	49.5	2.9
04:00 - 05:00	59.5	58.1	52.5	50.6	1.9
05:00 - 06:00	60.1	58.9	53.1	51.7	1.4
06:00 - 07:00	61.5	58.4	58.5	53.9	4.6
07:00 - 08:00	61.2	60.1	54.2	51.1	3.1
08:00 - 09:00	64.3	63.5	57.3	51.7	5.6
09:00 - 10:00	65.4	64.2	58.4	52.5	5.9
10:00 - 11:00	65.3	64.9	58.3	53.1	5.2
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:



(Parinya Klumnoi)

Approved By:



(Tawatchail Chongvutichai)



### ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440037
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 17-18, 2024	Sampling Point	: Construction area
Received Date	: Apr 22, 2024	Analytical Date	: Apr 24, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
17-04-24	12:20	1.2	13.9	0.2	35.7	0.2	31.3	32.9	10<f≤50
17-04-24	13:45	0.9	31.3	0.2	10.9	0.2	20.8	30.7	10<f≤50
17-04-24	14:33	1.6	27.8	0.2	10.9	1.3	16.7	28.9	10<f≤50
18-04-24	9:11	0.6	10.0	0.2	27.8	1.0	15.6	28.9	10<f≤50
18-04-24	10:23	1.1	25.0	0.2	50.0	0.8	22.7	40.0	10<f≤50
18-04-24	11:41	0.8	19.2	0.2	8.6	0.9	25.0	27.5	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :   
 (Parinya Klumnoi)

Approved By   
 (Tawatchai Chongvutichai)

ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240440038  
Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
Sampling Date : Apr 18-19, 2024 Sampling Point : Construction area  
Received Date : Apr 22, 2024 Analytical Date : Apr 24, 2024  
Sampling Method : - Sampling Condition : Good  
Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
18-04-24	12:20	0.8	16.7	0.2	35.7	0.7	50.0	40.0	10<f≤50
18-04-24	13:45	1.2	17.9	0.2	27.8	0.2	11.9	28.9	10<f≤50
18-04-24	14:33	0.8	41.7	0.2	19.2	1.5	10.9	35.9	10<f≤50
19-04-24	9:11	1.2	6.1	2.0	1.6	37.0	27.8	28.9	10<f≤50
19-04-24	10:23	0.9	11.9	0.2	1.6	0.8	12.5	21.3	10<f≤50
19-04-24	11:41	0.8	27.8	1.1	31.3	0.4	27.8	30.7	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440039
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 19-20, 2024	Sampling Point	: Construction area
Received Date	: Apr 22, 2024	Analytical Date	: Apr 24, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
19-04-24	12:30	0.5	25.0	0.2	19.2	0.9	20.0	27.5	10<f≤50
19-04-24	13:38	1.1	14.7	0.2	19.2	0.2	12.5	24.6	10<f≤50
19-04-24	14:52	0.9	25.0	0.2	35.7	0.1	20.5	32.9	10<f≤50
20-04-24	9:10	1.8	6.1	2.0	27.8	1.6	24.0	28.9	10<f≤50
20-04-24	10:35	0.3	9.6	0.1	10.9	0.7	11.4	20.7	10<f≤50
20-04-24	11:51	0.9	13.9	0.1	17.9	0.9	13.9	24.0	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510062  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : Apr 22-27, 2024 Sampling Point : Construction Area  
Received Date : Apr 29, 2024 Analytical Date : May 02, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	Apr 22-23, 2024	0.072	0.330
2	Total Suspended Paticulate (TSP)	Apr 23-24, 2025	0.071	0.330
3	Total Suspended Paticulate (TSP)	Apr 24-25, 2026	0.073	0.330
4	Total Suspended Paticulate (TSP)	Apr 25-26, 2027	0.076	0.330
5	Total Suspended Paticulate (TSP)	Apr 26-27, 2028	0.074	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Njiniart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510063  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
 Sampling Date : Apr 22-27, 2024 Sampling Point : Construction Area  
 Received Date : Apr 29, 2024 Analytical Date : May 02, 2024  
 Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
 Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	Apr 22-23, 2024	0.042	0.120
2	Paticulate Matter < 10 micron (PM-10)	Apr 23-24, 2025	0.043	0.120
3	Paticulate Matter < 10 micron (PM-10)	Apr 24-25, 2026	0.044	0.120
4	Paticulate Matter < 10 micron (PM-10)	Apr 25-26, 2027	0.042	0.120
5	Paticulate Matter < 10 micron (PM-10)	Apr 26-27, 2028	0.045	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430151  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 22 - 23, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	80.7	64.3
12:00 - 13:00	65.4	81.0	64.5
13:00 - 14:00	65.3	80.4	64.1
14:00 - 15:00	64.7	81.0	63.7
15:00 - 16:00	63.5	83.7	61.2
16:00 - 17:00	61.5	80.2	60.7
17:00 - 18:00	62.4	79.9	61.0
18:00 - 19:00	60.3	81.6	59.3
19:00 - 20:00	60.5	79.3	59.7
20:00 - 21:00	60.7	82.5	59.5
21:00 - 22:00	59.3	82.7	58.1
22:00 - 23:00	59.5	82.9	58.9
23:00 - 00:00	59.7	82.7	58.5
00:00 - 01:00	58.6	81.1	57.5
01:00 - 02:00	59.4	82.4	58.2
02:00 - 03:00	59.6	78.7	58.6
03:00 - 04:00	58.7	81.8	57.6
04:00 - 05:00	59.3	80.8	58.2
05:00 - 06:00	59.1	79.3	58.4
06:00 - 07:00	60.4	79.9	60.3
07:00 - 08:00	63.2	82.2	62.7
08:00 - 09:00	64.5	79.6	63.9
09:00 - 10:00	63.3	78.1	62.4
10:00 - 11:00	64.1	78.8	63.9
24 Hour	62.2	83.7	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:



(Parinya Klumnoi)

Approved By:



(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430152  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 22-23, 2024      Sampling Point : Construction area  
 Received Date : Apr 29, 2024      Analytical Date : May 2, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.3	58.1	53.1	5.0
12:00 - 13:00	65.4	64.5	58.4	52.4	6.0
13:00 - 14:00	65.3	64.1	58.3	53.9	4.4
14:00 - 15:00	64.7	63.7	57.7	52.7	5.0
15:00 - 16:00	63.5	61.2	59.0	52.9	6.1
16:00 - 17:00	61.5	60.7	54.5	51.5	3.0
17:00 - 18:00	62.4	61.0	55.4	53.4	2.0
18:00 - 19:00	60.3	59.3	53.3	51.6	1.7
19:00 - 20:00	60.5	59.7	53.5	50.7	2.8
20:00 - 21:00	60.7	59.5	53.7	50.9	2.8
21:00 - 22:00	59.3	58.1	52.3	50.1	2.2
22:00 - 23:00	59.5	58.9	52.5	49.8	2.7
23:00 - 00:00	59.7	58.5	52.7	49.7	3.0
00:00 - 01:00	58.6	57.5	51.6	49.5	2.1
01:00 - 02:00	59.4	58.2	52.4	50.6	1.8
02:00 - 03:00	59.6	58.6	52.6	49.6	3.0
03:00 - 04:00	58.7	57.6	51.7	49.5	2.2
04:00 - 05:00	59.3	58.2	52.3	51.1	1.2
05:00 - 06:00	59.1	58.4	52.1	51.6	0.5
06:00 - 07:00	60.4	60.3	53.4	51.1	2.3
07:00 - 08:00	63.2	62.7	56.2	52.2	4.0
08:00 - 09:00	64.5	63.9	57.5	52.5	5.0
09:00 - 10:00	63.3	62.4	56.3	53.7	2.6
10:00 - 11:00	64.1	63.9	57.1	53.4	3.7
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawat Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240430153  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 23 - 24, 2024      Sampling Point : Construction area  
 Received Date : Apr 29, 2024      Analytical Date : May 2, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.4	81.9	64.5
12:00 - 13:00	65.9	81.8	64.7
13:00 - 14:00	65.2	87.5	64.3
14:00 - 15:00	64.8	82.0	63.9
15:00 - 16:00	63.8	81.2	62.1
16:00 - 17:00	61.9	83.7	60.5
17:00 - 18:00	62.5	79.7	61.7
18:00 - 19:00	60.8	82.8	59.5
19:00 - 20:00	60.9	81.4	59.3
20:00 - 21:00	60.5	81.2	59.2
21:00 - 22:00	60.0	80.6	59.3
22:00 - 23:00	59.5	81.3	58.4
23:00 - 00:00	59.3	82.2	58.7
00:00 - 01:00	58.7	83.1	57.6
01:00 - 02:00	59.5	80.8	58.1
02:00 - 03:00	59.8	80.1	58.9
03:00 - 04:00	58.1	81.3	57.8
04:00 - 05:00	59.6	82.1	58.5
05:00 - 06:00	59.4	81.1	58.9
06:00 - 07:00	60.1	82.6	59.7
07:00 - 08:00	63.2	81.7	62.4
08:00 - 09:00	64.5	80.6	63.6
09:00 - 10:00	64.1	80.7	63.1
10:00 - 11:00	64.5	79.3	63.5
24 Hour	62.4	87.5	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
 (Parinya Klumnoi)

Approved By

  
 J-NAC Group



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430154  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 23-24, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.4	64.5	58.4	53.1	5.3
12:00 - 13:00	65.9	64.7	58.9	52.4	6.5
13:00 - 14:00	65.2	64.3	58.2	53.9	4.3
14:00 - 15:00	64.8	63.9	57.8	52.7	5.1
15:00 - 16:00	63.8	62.1	59.3	52.9	6.4
16:00 - 17:00	61.9	60.5	54.9	51.5	3.4
17:00 - 18:00	62.5	61.7	55.5	53.4	2.1
18:00 - 19:00	60.8	59.5	53.8	51.6	2.2
19:00 - 20:00	60.9	59.3	56.4	50.7	5.7
20:00 - 21:00	60.5	59.2	53.5	50.9	2.6
21:00 - 22:00	60.0	59.3	53.0	50.1	2.9
22:00 - 23:00	59.5	58.4	52.5	49.8	2.7
23:00 - 00:00	59.3	58.7	52.3	49.7	2.6
00:00 - 01:00	58.7	57.6	51.7	49.5	2.2
01:00 - 02:00	59.5	58.1	52.5	50.6	1.9
02:00 - 03:00	59.8	58.9	52.8	49.6	3.2
03:00 - 04:00	58.1	57.8	51.1	49.5	1.6
04:00 - 05:00	59.6	58.5	52.6	51.1	1.5
05:00 - 06:00	59.4	58.9	52.4	51.6	0.8
06:00 - 07:00	60.1	59.7	53.1	51.1	2.0
07:00 - 08:00	63.2	62.4	56.2	52.2	4.0
08:00 - 09:00	64.5	63.6	57.5	52.5	5.0
09:00 - 10:00	64.1	63.1	57.1	53.7	3.4
10:00 - 11:00	64.5	63.5	57.5	53.4	4.1
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name :	The Panora Baan-Amphur	Report No. :	RN240430155
Sampling Source :	Community Noise	Sampling Location :	The Panora Baan-Amphur
Sampling Date :	Apr 24 - 25, 2024	Sampling Point :	Construction area
Received Date :	Apr 29, 2024	Analytical Date :	May 2, 2024
Sampling Method :	-	Sampling Condition :	Good
Measured Instrument :	Integrated Sound Level Meter Delta OHM	Serial No.	17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	82.8	64.2
12:00 - 13:00	65.8	86.3	64.5
13:00 - 14:00	65.5	81.6	64.2
14:00 - 15:00	64.9	83.8	63.5
15:00 - 16:00	63.2	79.5	62.6
16:00 - 17:00	61.4	80.4	60.4
17:00 - 18:00	62.7	80.3	61.5
18:00 - 19:00	60.1	84.4	59.3
19:00 - 20:00	60.5	83.1	59.7
20:00 - 21:00	60.9	88.3	59.8
21:00 - 22:00	60.3	80.9	59.5
22:00 - 23:00	59.2	84.3	58.2
23:00 - 00:00	59.7	80.8	58.1
00:00 - 01:00	58.4	79.9	57.4
01:00 - 02:00	59.3	81.8	58.6
02:00 - 03:00	59.5	80.1	58.2
03:00 - 04:00	58.2	82.4	57.4
04:00 - 05:00	59.4	89.1	58.1
05:00 - 06:00	59.2	82.2	58.6
06:00 - 07:00	60.5	84.3	59.5
07:00 - 08:00	62.3	87.4	61.7
08:00 - 09:00	64.2	87.9	63.5
09:00 - 10:00	64.8	88.1	63.4
10:00 - 11:00	64.1	88.2	63.9
24 Hour	62.3	89.1	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:



(Parinya Klumnoi)

Approved By:



(Tawatchai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430156  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 24-25, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.2	58.1	53.2	4.9
12:00 - 13:00	65.8	64.5	58.8	52.6	6.2
13:00 - 14:00	65.5	64.2	58.5	53.5	5.0
14:00 - 15:00	64.9	63.5	60.4	52.9	7.5
15:00 - 16:00	63.2	62.6	56.2	53.1	3.1
16:00 - 17:00	61.4	60.4	54.4	51.9	2.5
17:00 - 18:00	62.7	61.5	55.7	53.5	2.2
18:00 - 19:00	60.1	59.3	53.1	51.9	1.2
19:00 - 20:00	60.5	59.7	53.5	50.6	2.9
20:00 - 21:00	60.9	59.8	53.9	50.4	3.5
21:00 - 22:00	60.3	59.5	53.3	50.7	2.6
22:00 - 23:00	59.2	58.2	52.2	49.4	2.8
23:00 - 00:00	59.7	58.1	55.2	49.6	5.6
00:00 - 01:00	58.4	57.4	51.4	49.5	1.9
01:00 - 02:00	59.3	58.6	52.3	50.1	2.2
02:00 - 03:00	59.5	58.2	52.5	49.3	3.2
03:00 - 04:00	58.2	57.4	51.2	49.7	1.5
04:00 - 05:00	59.4	58.1	52.4	51.5	0.9
05:00 - 06:00	59.2	58.6	52.2	51.4	0.8
06:00 - 07:00	60.5	59.5	53.5	51.9	1.6
07:00 - 08:00	62.3	61.7	55.3	52.8	2.5
08:00 - 09:00	64.2	63.5	57.2	52.6	4.6
09:00 - 10:00	64.8	63.4	57.8	53.7	4.1
10:00 - 11:00	64.1	63.9	57.1	53.9	3.2
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchail Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430157  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 25 - 26, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.5	80.7	64.1
12:00 - 13:00	65.3	80.3	64.7
13:00 - 14:00	65.7	78.9	64.8
14:00 - 15:00	64.9	79.2	63.9
15:00 - 16:00	63.5	81.8	62.5
16:00 - 17:00	61.2	79.8	60.3
17:00 - 18:00	62.8	80.1	61.4
18:00 - 19:00	60.4	78.9	59.5
19:00 - 20:00	60.9	81.1	59.9
20:00 - 21:00	60.5	81.1	59.7
21:00 - 22:00	59.2	81.9	58.2
22:00 - 23:00	59.4	78.0	58.5
23:00 - 00:00	59.4	81.0	58.1
00:00 - 01:00	58.9	79.4	57.9
01:00 - 02:00	59.6	78.9	58.6
02:00 - 03:00	59.2	78.9	58.7
03:00 - 04:00	58.6	83.2	57.4
04:00 - 05:00	59.4	88.2	58.6
05:00 - 06:00	59.5	88.1	58.2
06:00 - 07:00	60.4	87.4	59.8
07:00 - 08:00	63.8	87.5	62.4
08:00 - 09:00	64.7	82.6	63.5
09:00 - 10:00	63.5	83.8	62.7
10:00 - 11:00	64.3	83.5	63.1
24 Hour	62.4	88.2	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Kurnnoi)

Approved By:

(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430158  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 25-26, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.5	64.1	61.0	53.5	7.5
12:00 - 13:00	65.3	64.7	58.3	52.6	5.7
13:00 - 14:00	65.7	64.8	58.7	53.5	5.2
14:00 - 15:00	64.9	63.9	57.9	52.4	5.5
15:00 - 16:00	63.5	62.5	56.5	52.7	3.8
16:00 - 17:00	61.2	60.3	54.2	51.6	2.6
17:00 - 18:00	62.8	61.4	55.8	53.2	2.6
18:00 - 19:00	60.4	59.5	53.4	51.9	1.5
19:00 - 20:00	60.9	59.9	53.9	50.5	3.4
20:00 - 21:00	60.5	59.7	53.5	50.6	2.9
21:00 - 22:00	59.2	58.2	52.2	50.5	1.7
22:00 - 23:00	59.4	58.5	52.4	49.7	2.7
23:00 - 00:00	59.4	58.1	52.4	49.5	2.9
00:00 - 01:00	58.9	57.9	51.9	49.1	2.8
01:00 - 02:00	59.6	58.6	52.6	50.3	2.3
02:00 - 03:00	59.2	58.7	52.2	49.2	3.0
03:00 - 04:00	58.6	57.4	51.6	49.6	2.0
04:00 - 05:00	59.4	58.6	52.4	51.5	0.9
05:00 - 06:00	59.5	58.2	52.5	51.4	1.1
06:00 - 07:00	60.4	59.8	53.4	51.6	1.8
07:00 - 08:00	63.8	62.4	56.8	52.5	4.3
08:00 - 09:00	64.7	63.5	57.7	53.2	4.5
09:00 - 10:00	63.5	62.7	56.5	53.7	2.8
10:00 - 11:00	64.3	63.1	57.3	53.2	4.1
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430159  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 26 - 27, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	86.5	64.5
12:00 - 13:00	65.9	88.1	64.7
13:00 - 14:00	65.4	80.0	64.2
14:00 - 15:00	64.8	84.5	63.8
15:00 - 16:00	63.6	78.4	62.5
16:00 - 17:00	61.5	83.1	60.7
17:00 - 18:00	62.3	85.0	61.3
18:00 - 19:00	60.7	86.4	59.5
19:00 - 20:00	60.5	86.4	59.8
20:00 - 21:00	60.9	86.7	59.9
21:00 - 22:00	59.5	87.1	58.2
22:00 - 23:00	59.1	87.2	58.6
23:00 - 00:00	59.6	81.1	59.0
00:00 - 01:00	58.7	80.4	57.6
01:00 - 02:00	59.2	86.0	58.1
02:00 - 03:00	59.6	81.7	58.6
03:00 - 04:00	58.7	82.6	57.8
04:00 - 05:00	59.6	81.0	58.0
05:00 - 06:00	59.1	81.9	58.3
06:00 - 07:00	60.7	79.0	59.6
07:00 - 08:00	63.2	79.7	62.2
08:00 - 09:00	64.8	81.2	63.5
09:00 - 10:00	63.9	81.1	62.7
10:00 - 11:00	64.1	80.0	63.4
24 Hour	62.4	88.1	58.0
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240430160  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 26-27, 2024 Sampling Point : Construction area  
 Received Date : Apr 29, 2024 Analytical Date : May 2, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.5	58.1	53.1	5.0
12:00 - 13:00	65.9	64.7	58.9	52.5	6.4
13:00 - 14:00	65.4	64.2	58.4	53.4	5.0
14:00 - 15:00	64.8	63.8	57.8	52.9	4.9
15:00 - 16:00	63.6	62.5	56.6	52.6	4.0
16:00 - 17:00	61.5	60.7	54.5	51.7	2.8
17:00 - 18:00	62.3	61.3	55.3	53.2	2.1
18:00 - 19:00	60.7	59.5	53.7	51.6	2.1
19:00 - 20:00	60.5	59.8	53.5	50.7	2.8
20:00 - 21:00	60.9	59.9	53.9	50.3	3.6
21:00 - 22:00	59.5	58.2	52.5	50.7	1.8
22:00 - 23:00	59.1	58.6	52.1	49.5	2.6
23:00 - 00:00	59.6	59.0	52.6	49.1	3.5
00:00 - 01:00	58.7	57.6	51.7	49.5	2.2
01:00 - 02:00	59.2	58.1	52.2	50.2	2.0
02:00 - 03:00	59.6	58.6	52.6	49.5	3.1
03:00 - 04:00	58.7	57.8	51.7	49.3	2.4
04:00 - 05:00	59.6	58.0	55.1	51.2	3.9
05:00 - 06:00	59.1	58.3	52.1	51.5	0.6
06:00 - 07:00	60.7	59.6	53.7	51.4	2.3
07:00 - 08:00	63.2	62.2	56.2	52.7	3.5
08:00 - 09:00	64.8	63.5	57.8	53.6	4.2
09:00 - 10:00	63.9	62.7	56.9	53.5	3.4
10:00 - 11:00	64.1	63.4	57.1	53.6	3.5
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440040
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 22-23, 2024	Sampling Point	: Construction area
Received Date	: Apr 29, 2024	Analytical Date	: May 02, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
22-04-24	12:10	0.6	19.2	0.2	35.7	0.8	16.7	32.9	10<f≤50
22-04-24	13:51	0.7	16.7	0.2	35.7	1.0	10.0	32.9	10<f≤50
22-04-24	14:43	1.0	14.7	0.1	35.7	0.1	31.3	32.9	10<f≤50
23-04-24	9:35	2.2	10.0	0.2	10.9	1.6	31.3	30.7	10<f≤50
23-04-24	10:20	1.0	11.9	0.2	0.4	0.9	15.6	22.8	10<f≤50
23-04-24	11:41	1.0	35.7	0.1	0.6	1.0	13.9	32.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :   
 (Parinya Klumnoi)

Approved By :   
 (Tawatchai Chongvutichai)



### ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440041
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 23-24, 2024	Sampling Point	: Construction area
Received Date	: Apr 29, 2024	Analytical Date	: May 02, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
23-04-24	12:19	0.4	17.9	0.1	11.4	0.8	20.8	25.4	10<f≤50
23-04-24	13:41	1.0	14.7	0.2	35.7	1.0	16.7	32.9	10<f≤50
23-04-24	14:34	0.4	15.6	0.2	10.9	0.8	13.9	22.8	10<f≤50
24-04-24	9:45	0.7	22.7	0.2	27.8	0.2	31.3	30.7	10<f≤50
24-04-24	10:40	2.2	50.0	0.2	27.8	4.0	11.9	40.0	10<f≤50
24-04-24	11:53	1.2	17.9	0.2	0.6	0.8	14.7	24.0	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440042
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 24-25, 2024	Sampling Point	: Construction area
Received Date	: Apr 29, 2024	Analytical Date	: May 02, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
24-04-24	12:49	5.0	14.7	0.2	35.7	0.2	20.5	32.9	10<f≤50
24-04-24	13:50	1.2	27.8	0.2	19.2	0.2	10.9	28.9	10<f≤50
24-04-24	14:44	1.5	25.0	0.2	19.2	0.2	31.3	30.7	10<f≤50
25-04-24	9:35	1.6	27.8	0.2	10.9	1.9	10.0	28.9	10<f≤50
25-04-24	10:28	0.8	17.9	0.2	0.6	1.0	17.9	24.0	10<f≤50
25-04-24	11:40	1.0	5.1	0.2	0.4	1.1	5.6	20.0	f≤10

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440043
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 25-26, 2024	Sampling Point	: Construction area
Received Date	: Apr 29, 2024	Analytical Date	: May 02, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
25-04-24	12:42	0.6	10.4	0.7	5.3	0.3	6.6	20.2	10<f≤50
25-04-24	13:55	0.3	11.9	0.7	41.7	0.5	3.2	35.9	10<f≤50
25-04-24	14:21	0.5	13.2	0.8	31.3	0.4	35.7	32.9	10<f≤50
26-04-24	9:45	0.4	5.8	0.8	35.7	0.7	31.3	32.9	10<f≤50
26-04-24	10:56	0.4	27.8	0.6	16.7	0.5	10.4	28.9	10<f≤50
26-04-24	11:56	0.5	25.0	0.8	31.3	0.4	7.4	30.7	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440044
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 26-27, 2024	Sampling Point	: Construction area
Received Date	: Apr 29, 2024	Analytical Date	: May 02, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
26-04-24	12:46	1.6	22.7	2.0	35.7	1.4	25.0	32.9	10<f≤50
26-04-24	13:51	6.8	41.7	2.8	0.6	2.0	31.3	35.9	10<f≤50
26-04-24	14:45	2.8	22.7	2.8	0.5	1.4	13.2	26.4	10<f≤50
27-04-24	9:35	6.4	1.3	4.4	9.6	1.3	13.0	21.5	10<f≤50
27-04-24	10:46	0.6	10.4	0.7	5.3	0.3	6.6	20.2	10<f≤50
27-04-24	11:26	0.3	11.9	0.7	41.7	0.5	3.2	35.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)





ห้องปฏิบัติการวิเคราะห์เอกชน บริษัท โอกลา เทสต์ติ้ง แอนด์ คอนซัลติ้ง เซอร์วิส จำกัด

63/13 เพชรเกษม ซอย 7 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

โทร: (66)02-868-1246 โทรสาร: (66)02-868-1247 Website: [www.okla-testing.com](http://www.okla-testing.com) J-NAC Group

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510064  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : Apr 29-May 04, 2024 Sampling Point : Construction Area  
Received Date : May 06, 2024 Analytical Date : May 08, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good

Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	Apr 29-30, 2024	0.073	0.330
2	Total Suspended Paticulate (TSP)	May 2-3, 2024	0.076	0.330
3	Total Suspended Paticulate (TSP)	May 3-4, 2024	0.078	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)

ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510065  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : Apr 29-May 04, 2024 Sampling Point : Construction Area  
Received Date : May 06, 2024 Analytical Date : May 08, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	Apr 29-30, 2024	0.045	0.120
2	Paticulate Matter < 10 micron (PM-10)	May 2-3, 2024	0.048	0.120
3	Paticulate Matter < 10 micron (PM-10)	May 3-4, 2024	0.047	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530161  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 29 - 30, 2024      Sampling Point : Construction area  
 Received Date : May 6, 2024      Analytical Date : May 8, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.5	89.4	64.7
12:00 - 13:00	65.1	89.8	64.3
13:00 - 14:00	65.2	91.3	64.8
14:00 - 15:00	64.8	91.6	63.9
15:00 - 16:00	63.9	93.1	61.5
16:00 - 17:00	61.3	97.8	60.5
17:00 - 18:00	62.5	97.9	61.6
18:00 - 19:00	60.9	96.1	59.7
19:00 - 20:00	60.7	98.0	59.3
20:00 - 21:00	60.5	97.5	59.7
21:00 - 22:00	59.6	98.3	58.6
22:00 - 23:00	59.1	99.3	58.7
23:00 - 00:00	59.5	98.2	58.4
00:00 - 01:00	58.3	90.6	57.9
01:00 - 02:00	59.5	88.4	58.5
02:00 - 03:00	59.7	90.4	58.7
03:00 - 04:00	58.1	95.4	57.9
04:00 - 05:00	59.6	94.4	58.6
05:00 - 06:00	59.5	91.8	58.4
06:00 - 07:00	60.8	91.2	60.1
07:00 - 08:00	63.5	92.8	62.5
08:00 - 09:00	64.9	92.4	63.9
09:00 - 10:00	63.8	92.4	63.6
10:00 - 11:00	64.5	93.4	63.7
24 Hour	62.4	99.3	58.4
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Rawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full,  
 without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530162  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Apr 29-30, 2024      Sampling Point : Construction area  
 Received Date : May 6, 2024      Analytical Date : May 8, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.5	64.7	58.5	53.6	4.9
12:00 - 13:00	65.1	64.3	58.1	52.9	5.2
13:00 - 14:00	65.2	64.8	58.2	53.6	4.6
14:00 - 15:00	64.8	63.9	57.8	52.8	5.0
15:00 - 16:00	63.9	61.5	59.4	52.6	6.8
16:00 - 17:00	61.3	60.5	54.3	51.9	2.4
17:00 - 18:00	62.5	61.6	55.5	53.6	1.9
18:00 - 19:00	60.9	59.7	53.9	51.4	2.5
19:00 - 20:00	60.7	59.3	56.2	50.9	5.3
20:00 - 21:00	60.5	59.7	53.5	50.6	2.9
21:00 - 22:00	59.6	58.6	52.6	50.4	2.2
22:00 - 23:00	59.1	58.7	52.1	49.7	2.4
23:00 - 00:00	59.5	58.4	52.5	49.3	3.2
00:00 - 01:00	58.3	57.9	51.3	49.5	1.8
01:00 - 02:00	59.5	58.5	52.5	50.1	2.4
02:00 - 03:00	59.7	58.7	52.7	49.7	3.0
03:00 - 04:00	58.1	57.9	51.1	49.2	1.9
04:00 - 05:00	59.6	58.6	52.6	51.6	1.0
05:00 - 06:00	59.5	58.4	52.5	51.4	1.1
06:00 - 07:00	60.8	60.1	53.8	51.5	2.3
07:00 - 08:00	63.5	62.5	56.5	52.3	4.2
08:00 - 09:00	64.9	63.9	57.9	52.7	5.2
09:00 - 10:00	63.8	63.6	56.8	53.2	3.6
10:00 - 11:00	64.5	63.7	57.5	53.4	4.1
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530165  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 2 - 3, 2024      Sampling Point : Construction area  
 Received Date : May 6, 2024      Analytical Date : May 8, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	82.1	64.2
12:00 - 13:00	65.4	81.1	64.7
13:00 - 14:00	65.8	79.9	64.2
14:00 - 15:00	64.5	81.7	63.2
15:00 - 16:00	63.7	80.8	61.5
16:00 - 17:00	61.5	80.0	60.3
17:00 - 18:00	62.1	83.8	61.7
18:00 - 19:00	60.5	85.5	59.2
19:00 - 20:00	60.7	83.1	59.6
20:00 - 21:00	60.3	81.5	59.4
21:00 - 22:00	59.3	91.1	58.2
22:00 - 23:00	59.4	89.2	58.6
23:00 - 00:00	59.2	92.3	58.2
00:00 - 01:00	58.6	86.1	57.6
01:00 - 02:00	59.4	81.6	58.4
02:00 - 03:00	59.1	86.8	58.1
03:00 - 04:00	58.6	82.8	57.6
04:00 - 05:00	59.7	83.3	58.2
05:00 - 06:00	59.5	82.2	58.9
06:00 - 07:00	60.1	83.9	59.7
07:00 - 08:00	63.2	80.9	62.3
08:00 - 09:00	64.5	84.4	63.4
09:00 - 10:00	63.7	84.4	63.0
10:00 - 11:00	64.9	88.4	63.1
24 Hour	62.3	92.3	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Tawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530166  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 2-3, 2024      Sampling Point : Construction area  
 Received Date : May 6, 2024      Analytical Date : May 8, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.2	58.1	53.7	4.4
12:00 - 13:00	65.4	64.7	58.4	52.1	6.3
13:00 - 14:00	65.8	64.2	61.3	53.9	7.4
14:00 - 15:00	64.5	63.2	57.5	52.6	4.9
15:00 - 16:00	63.7	61.5	59.2	52.4	6.8
16:00 - 17:00	61.5	60.3	54.5	51.5	3.0
17:00 - 18:00	62.1	61.7	55.1	53.4	1.7
18:00 - 19:00	60.5	59.2	53.5	51.6	1.9
19:00 - 20:00	60.7	59.6	53.7	50.8	2.9
20:00 - 21:00	60.3	59.4	53.3	50.1	3.2
21:00 - 22:00	59.3	58.2	52.3	50.6	1.7
22:00 - 23:00	59.4	58.6	52.4	49.7	2.7
23:00 - 00:00	59.2	58.2	52.2	49.5	2.7
00:00 - 01:00	58.6	57.6	51.6	49.1	2.5
01:00 - 02:00	59.4	58.4	52.4	50.6	1.8
02:00 - 03:00	59.1	58.1	52.1	49.1	3.0
03:00 - 04:00	58.6	57.6	51.6	49.7	1.9
04:00 - 05:00	59.7	58.2	55.2	51.2	4.0
05:00 - 06:00	59.5	58.9	52.5	51.7	0.8
06:00 - 07:00	60.1	59.7	53.1	51.9	1.2
07:00 - 08:00	63.2	62.3	56.2	52.4	3.8
08:00 - 09:00	64.5	63.4	57.5	52.3	5.2
09:00 - 10:00	63.7	63.0	56.7	53.7	3.0
10:00 - 11:00	64.9	63.1	60.4	53.9	6.5
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Tawatchai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530167  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 3 - 4, 2024      Sampling Point : Construction area  
 Received Date : May 6, 2024      Analytical Date : May 8, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.4	80.3	64.1
12:00 - 13:00	65.3	88.9	64.9
13:00 - 14:00	65.7	90.2	64.7
14:00 - 15:00	64.9	91.8	63.2
15:00 - 16:00	63.5	92.5	61.9
16:00 - 17:00	61.6	98.1	60.5
17:00 - 18:00	62.4	88.9	61.7
18:00 - 19:00	60.5	81.1	59.2
19:00 - 20:00	60.1	81.1	59.5
20:00 - 21:00	60.9	89.9	59.8
21:00 - 22:00	59.3	89.4	58.3
22:00 - 23:00	59.5	83.4	58.5
23:00 - 00:00	59.7	89.4	58.7
00:00 - 01:00	58.2	89.8	57.5
01:00 - 02:00	59.6	89.9	58.6
02:00 - 03:00	59.4	80.1	58.4
03:00 - 04:00	58.2	89.6	57.2
04:00 - 05:00	59.4	89.4	58.2
05:00 - 06:00	59.2	88.0	58.9
06:00 - 07:00	60.7	88.2	59.8
07:00 - 08:00	63.1	83.1	62.1
08:00 - 09:00	64.5	82.4	63.4
09:00 - 10:00	63.9	81.5	63.1
10:00 - 11:00	64.1	88.8	63.8
24 Hour	62.3	98.1	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Pannya Kumnnoi)

Approved By:

(Tawatchai Chongvutichai)

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 without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530168  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 3-4, 2024      Sampling Point : Construction area  
 Received Date : May 6, 2024      Analytical Date : May 8, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.4	64.1	58.4	53.4	5.0
12:00 - 13:00	65.3	64.9	58.3	52.8	5.5
13:00 - 14:00	65.7	64.7	58.7	53.5	5.2
14:00 - 15:00	64.9	63.2	60.4	53.6	6.8
15:00 - 16:00	63.5	61.9	59.0	52.7	6.3
16:00 - 17:00	61.6	60.5	54.6	52.0	2.6
17:00 - 18:00	62.4	61.7	55.4	53.7	1.7
18:00 - 19:00	60.5	59.2	53.5	51.6	1.9
19:00 - 20:00	60.1	59.5	53.1	50.7	2.4
20:00 - 21:00	60.9	59.8	53.9	50.5	3.4
21:00 - 22:00	59.3	58.3	52.3	50.3	2.0
22:00 - 23:00	59.5	58.5	52.5	49.8	2.7
23:00 - 00:00	59.7	58.7	52.7	49.6	3.1
00:00 - 01:00	58.2	57.5	51.2	49.7	1.5
01:00 - 02:00	59.6	58.6	52.6	50.3	2.3
02:00 - 03:00	59.4	58.4	52.4	49.5	2.9
03:00 - 04:00	58.2	57.2	51.2	49.6	1.6
04:00 - 05:00	59.4	58.2	52.4	51.0	1.4
05:00 - 06:00	59.2	58.9	52.2	51.3	0.9
06:00 - 07:00	60.7	59.8	53.7	51.7	2.0
07:00 - 08:00	63.1	62.1	56.1	52.7	3.4
08:00 - 09:00	64.5	63.4	57.5	52.4	5.1
09:00 - 10:00	63.9	63.1	56.9	53.8	3.1
10:00 - 11:00	64.1	63.8	57.1	53.9	3.2
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchail Chongvutichai)



## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240440045
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Apr 29-30, 2024	Sampling Point	: Construction area
Received Date	: May 06, 2024	Analytical Date	: May 08, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
29-04-24	12:11	0.3	13.9	0.3	8.9	0.3	12.5	22.0	10<f≤50
29-04-24	13:55	0.3	13.2	0.3	7.6	0.3	4.2	21.6	10<f≤50
29-04-24	14:12	0.3	13.2	0.3	50.0	0.3	4.2	40.0	10<f≤50
30-04-24	9:12	0.2	6.6	0.7	9.6	0.3	6.0	20.0	f≤10
30-04-24	10:07	0.3	6.1	0.8	31.3	0.4	22.7	30.7	10<f≤50
30-04-24	11:58	0.4	12.5	0.6	50.0	0.3	14.7	40.0	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)

Project : The Panora Baan-Amphur

Report No. : RN240540047

Sampling Source : The Panora Baan-Amphur

Sampling Location : Construction area

Sampling Date : May 02-03, 2024

Sampling Point : Construction area

Received Date : May 06, 2024

Analytical Date : May 08, 2024

Sampling Method : -

Sampling Condition : Good

Measured Instrument : Vibrock V 9000

Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
02-05-24	12:31	0.4	27.8	0.2	16.7	0.4	8.1	28.9	10<f≤50
02-05-24	13:07	0.2	19.2	0.2	8.9	0.2	19.2	24.6	10<f≤50
02-05-24	14:55	0.9	4.6	3.2	50.0	0.7	13.2	40.0	10<f≤50
03-05-24	9:35	0.3	15.6	0.2	7.6	0.3	35.7	32.9	10<f≤50
03-05-24	10:11	4.4	13.2	0.2	14.7	5.0	4.2	22.4	10<f≤50
03-05-24	12:17	0.5	5.1	0.2	31.3	1.1	25.0	30.7	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240540048  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : May 03-04, 2024 Sampling Point : Construction area  
 Received Date : May 06, 2024 Analytical Date : May 08, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
03-05-24	12:54	0.3	15.6	0.2	7.6	0.3	35.7	32.9	10<f≤50
03-05-24	13:04	0.3	15.6	0.2	50.0	0.3	27.8	40.0	10<f≤50
03-05-24	14:59	0.3	12.5	0.3	7.6	0.3	12.5	21.3	10<f≤50
04-05-24	9:00	0.4	9.6	0.3	11.9	0.3	8.9	21.0	10<f≤50
04-05-24	10:48	0.8	6.4	0.1	10.0	1.7	9.3	20.0	f≤10
04-05-24	12:22	0.7	8.6	0.2	10.0	0.9	4.9	20.0	f≤10

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510066  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : May 06-11, 2024 Sampling Point : Construction Area  
Received Date : May 13, 2024 Analytical Date : May 15, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	May 6-7, 2024	0.073	0.330
2	Total Suspended Paticulate (TSP)	May 7-8, 2024	0.075	0.330
3	Total Suspended Paticulate (TSP)	May 8-9, 2024	0.073	0.330
4	Total Suspended Paticulate (TSP)	May 9-10, 2032	0.071	0.330
5	Total Suspended Paticulate (TSP)	May 10-11, 2033	0.075	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

  
(Parinya Klumnoi)

Analyzed By :

  
(Nijinart Matiyapak)

Approved By :

  
(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510067  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
 Sampling Date : May 06-11, 2024 Sampling Point : Construction Area  
 Received Date : May 13, 2024 Analytical Date : May 15, 2024  
 Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
 Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	May 6-7, 2024	0.046	0.120
2	Paticulate Matter < 10 micron (PM-10)	May 7-8, 2024	0.041	0.120
3	Paticulate Matter < 10 micron (PM-10)	May 8-9, 2024	0.044	0.120
4	Paticulate Matter < 10 micron (PM-10)	May 9-10, 2024	0.042	0.120
5	Paticulate Matter < 10 micron (PM-10)	May 10-11, 2024	0.043	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530169  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 6 - 7, 2024 Sampling Point : Construction area  
 Received Date : May 13, 2024 Analytical Date : May 15, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.7	79.9	64.2
12:00 - 13:00	65.9	83.3	64.1
13:00 - 14:00	65.2	82.3	64.5
14:00 - 15:00	64.9	80.0	63.6
15:00 - 16:00	63.1	83.9	61.4
16:00 - 17:00	61.5	86.5	60.3
17:00 - 18:00	62.9	80.6	61.7
18:00 - 19:00	60.5	81.6	59.2
19:00 - 20:00	60.3	78.7	59.6
20:00 - 21:00	60.1	79.7	59.1
21:00 - 22:00	60.0	77.1	58.0
22:00 - 23:00	59.7	75.2	58.4
23:00 - 00:00	59.8	80.6	58.2
00:00 - 01:00	58.9	97.7	57.4
01:00 - 02:00	59.6	82.5	58.6
02:00 - 03:00	59.8	81.0	58.2
03:00 - 04:00	58.6	76.8	57.8
04:00 - 05:00	59.1	86.7	58.4
05:00 - 06:00	59.7	73.0	58.1
06:00 - 07:00	60.5	79.1	59.7
07:00 - 08:00	63.4	78.6	62.6
08:00 - 09:00	64.5	78.8	63.7
09:00 - 10:00	63.9	77.1	62.6
10:00 - 11:00	64.1	77.6	63.7
24 Hour	62.4	97.7	58.0
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530170  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 6-7, 2024      Sampling Point : Construction area  
 Received Date : May 13, 2024      Analytical Date : May 15, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.7	64.2	61.2	53.7	7.5
12:00 - 13:00	65.9	64.1	61.4	53.0	8.4
13:00 - 14:00	65.2	64.5	58.2	53.4	4.8
14:00 - 15:00	64.9	63.6	57.9	52.4	5.5
15:00 - 16:00	63.1	61.4	58.6	52.7	5.9
16:00 - 17:00	61.5	60.3	54.5	51.6	2.9
17:00 - 18:00	62.9	61.7	55.9	53.4	2.5
18:00 - 19:00	60.5	59.2	53.5	51.7	1.8
19:00 - 20:00	60.3	59.6	53.3	50.8	2.5
20:00 - 21:00	60.1	59.1	53.1	50.3	2.8
21:00 - 22:00	60.0	58.0	55.5	50.7	4.8
22:00 - 23:00	59.7	58.4	52.7	49.3	3.4
23:00 - 00:00	59.8	58.2	55.3	49.7	5.6
00:00 - 01:00	58.9	57.4	54.4	49.8	4.6
01:00 - 02:00	59.6	58.6	52.6	50.6	2.0
02:00 - 03:00	59.8	58.2	55.3	49.9	5.4
03:00 - 04:00	58.6	57.8	51.6	49.5	2.1
04:00 - 05:00	59.1	58.4	52.1	51.2	0.9
05:00 - 06:00	59.7	58.1	55.2	51.6	3.6
06:00 - 07:00	60.5	59.7	53.5	51.7	1.8
07:00 - 08:00	63.4	62.6	56.4	52.2	4.2
08:00 - 09:00	64.5	63.7	57.5	52.9	4.6
09:00 - 10:00	63.9	62.6	56.9	53.9	3.0
10:00 - 11:00	64.1	63.7	57.1	53.7	3.4
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawat Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530171  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 7 - 8, 2024      Sampling Point : Construction area  
 Received Date : May 13, 2024      Analytical Date : May 15, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.0	97.1	65.1
12:00 - 13:00	65.7	97.8	64.9
13:00 - 14:00	65.3	96.5	64.5
14:00 - 15:00	64.5	97.3	63.8
15:00 - 16:00	63.6	95.1	61.3
16:00 - 17:00	61.7	95.0	60.8
17:00 - 18:00	62.5	96.6	61.2
18:00 - 19:00	60.9	96.2	59.6
19:00 - 20:00	60.4	96.7	59.7
20:00 - 21:00	60.5	94.2	59.4
21:00 - 22:00	60.7	96.5	59.5
22:00 - 23:00	59.3	91.7	58.0
23:00 - 00:00	59.8	87.9	58.9
00:00 - 01:00	58.4	90.5	57.6
01:00 - 02:00	59.6	89.2	58.1
02:00 - 03:00	59.1	88.8	58.9
03:00 - 04:00	58.7	86.5	57.5
04:00 - 05:00	59.3	87.7	58.2
05:00 - 06:00	59.4	86.9	58.6
06:00 - 07:00	60.2	87.9	59.4
07:00 - 08:00	63.1	87.9	62.2
08:00 - 09:00	64.5	90.1	63.4
09:00 - 10:00	63.5	89.6	62.5
10:00 - 11:00	64.3	90.6	63.1
24 Hour	62.4	97.8	58.0
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 270, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full,  
 without written approval of Laboratory.\*\*\*



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530172  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 7-8, 2024      Sampling Point : Construction area  
 Received Date : May 13, 2024      Analytical Date : May 15, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.0	65.1	59.0	53.1	5.9
12:00 - 13:00	65.7	64.9	58.7	53.9	4.8
13:00 - 14:00	65.3	64.5	58.3	53.7	4.6
14:00 - 15:00	64.5	63.8	57.5	52.9	4.6
15:00 - 16:00	63.6	61.3	59.1	52.6	6.5
16:00 - 17:00	61.7	60.8	54.7	51.8	2.9
17:00 - 18:00	62.5	61.2	55.5	53.9	1.6
18:00 - 19:00	60.9	59.6	53.9	52.5	1.4
19:00 - 20:00	60.4	59.7	53.4	50.7	2.7
20:00 - 21:00	60.5	59.4	53.5	50.9	2.6
21:00 - 22:00	60.7	59.5	53.7	50.5	3.2
22:00 - 23:00	59.3	58.0	52.3	49.6	2.7
23:00 - 00:00	59.8	58.9	52.8	49.7	3.1
00:00 - 01:00	58.4	57.6	51.4	49.5	1.9
01:00 - 02:00	59.6	58.1	55.1	50.4	4.7
02:00 - 03:00	59.1	58.9	52.1	49.5	2.6
03:00 - 04:00	58.7	57.5	51.7	49.7	2.0
04:00 - 05:00	59.3	58.2	52.3	51.6	0.7
05:00 - 06:00	59.4	58.6	52.4	51.2	1.2
06:00 - 07:00	60.2	59.4	53.2	51.1	2.1
07:00 - 08:00	63.1	62.2	56.1	52.9	3.2
08:00 - 09:00	64.5	63.4	57.5	52.4	5.1
09:00 - 10:00	63.5	62.5	56.5	53.8	2.7
10:00 - 11:00	64.3	63.1	57.3	53.6	3.7
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

NOISE MONITORING REPORT

Project Name :

The Panora Baan-Amphur

Report No. :

RN240530173

Sampling Source :

Community Noise

Sampling Location :

The Panora Baan-Amphur

Sampling Date :

May 8 - 9, 2024

Sampling Point :

Construction area

Received Date :

May 13, 2024

Analytical Date :

May 15, 2024

Sampling Method :

-

Sampling Condition :

Good

Measured Instrument :

Integrated Sound Level Meter Delta OHM

Serial No.

17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.8	86.0	64.9
12:00 - 13:00	65.4	88.2	64.5
13:00 - 14:00	65.9	80.8	64.7
14:00 - 15:00	64.1	81.2	63.9
15:00 - 16:00	63.8	77.5	61.5
16:00 - 17:00	61.9	80.7	60.1
17:00 - 18:00	62.6	77.1	61.9
18:00 - 19:00	60.7	77.7	59.4
19:00 - 20:00	60.9	75.4	59.2
20:00 - 21:00	60.1	80.4	59.3
21:00 - 22:00	60.5	81.3	59.1
22:00 - 23:00	59.7	79.3	58.6
23:00 - 00:00	59.5	75.8	58.1
00:00 - 01:00	58.6	75.1	57.9
01:00 - 02:00	59.2	80.0	58.6
02:00 - 03:00	59.5	81.3	58.4
03:00 - 04:00	58.4	75.4	57.3
04:00 - 05:00	59.2	81.0	58.9
05:00 - 06:00	59.6	75.8	58.4
06:00 - 07:00	60.5	73.1	59.1
07:00 - 08:00	63.5	73.0	62.3
08:00 - 09:00	63.7	76.5	62.9
09:00 - 10:00	63.9	77.0	62.1
10:00 - 11:00	64.5	96.8	63.7
24 Hour	62.4	96.8	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:



(Parinya Kurnnoi)

Approved By:



(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530174  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 8-9, 2024      Sampling Point : Construction area  
 Received Date : May 13, 2024      Analytical Date : May 15, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.8	64.9	58.8	53.4	5.4
12:00 - 13:00	65.4	64.5	58.4	53.2	5.2
13:00 - 14:00	65.9	64.7	58.9	53.4	5.5
14:00 - 15:00	64.1	63.9	57.1	52.5	4.6
15:00 - 16:00	63.8	61.5	59.3	52.9	6.4
16:00 - 17:00	61.9	60.1	57.4	51.6	5.8
17:00 - 18:00	62.6	61.9	55.6	53.4	2.2
18:00 - 19:00	60.7	59.4	53.7	52.5	1.2
19:00 - 20:00	60.9	59.2	56.4	51.0	5.4
20:00 - 21:00	60.1	59.3	53.1	50.8	2.3
21:00 - 22:00	60.5	59.1	53.5	50.7	2.8
22:00 - 23:00	59.7	58.6	52.7	49.2	3.5
23:00 - 00:00	59.5	58.1	52.5	49.6	2.9
00:00 - 01:00	58.6	57.9	51.6	49.1	2.5
01:00 - 02:00	59.2	58.6	52.2	49.9	2.3
02:00 - 03:00	59.5	58.4	52.5	49.6	2.9
03:00 - 04:00	58.4	57.3	51.4	49.7	1.7
04:00 - 05:00	59.2	58.9	52.2	50.6	1.6
05:00 - 06:00	59.6	58.4	52.6	50.7	1.9
06:00 - 07:00	60.5	59.1	53.5	51.5	2.0
07:00 - 08:00	63.5	62.3	56.5	52.2	4.3
08:00 - 09:00	63.7	62.9	56.7	52.0	4.7
09:00 - 10:00	63.9	62.1	59.4	52.6	6.8
10:00 - 11:00	64.5	63.7	57.5	53.7	3.8
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

  
 (Parinya Klumnoi)

Approved By:

  
 (Tawatchail Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530175  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 9 - 10, 2024      Sampling Point : Construction area  
 Received Date : May 13, 2024      Analytical Date : May 15, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.1	97.5	64.5
12:00 - 13:00	65.4	98.1	64.3
13:00 - 14:00	65.8	98.8	64.7
14:00 - 15:00	65.0	97.6	63.3
15:00 - 16:00	63.5	95.6	61.2
16:00 - 17:00	61.9	92.7	60.8
17:00 - 18:00	62.2	96.8	61.1
18:00 - 19:00	60.7	98.9	59.6
19:00 - 20:00	60.5	95.2	59.2
20:00 - 21:00	60.9	91.3	59.4
21:00 - 22:00	60.2	87.5	59.6
22:00 - 23:00	59.7	89.6	58.8
23:00 - 00:00	59.6	89.5	58.1
00:00 - 01:00	58.7	88.9	57.9
01:00 - 02:00	58.9	89.4	58.6
02:00 - 03:00	59.0	90.1	58.4
03:00 - 04:00	58.4	90.6	57.7
04:00 - 05:00	59.5	89.7	58.0
05:00 - 06:00	59.2	88.4	58.3
06:00 - 07:00	60.1	87.9	59.1
07:00 - 08:00	63.4	90.4	62.3
08:00 - 09:00	64.2	90.8	63.1
09:00 - 10:00	64.1	96.5	62.7
10:00 - 11:00	64.5	94.7	63.8
24 Hour	62.4	98.9	58.0
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 270, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

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### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530176  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 9-10, 2024 Sampling Point : Construction area  
 Received Date : May 13, 2024 Analytical Date : May 15, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.1	64.5	58.1	53.1	5.0
12:00 - 13:00	65.4	64.3	58.4	53.9	4.5
13:00 - 14:00	65.8	64.7	58.8	53.6	5.2
14:00 - 15:00	65.0	63.3	60.5	53.4	7.1
15:00 - 16:00	63.5	61.2	59.0	52.9	6.1
16:00 - 17:00	61.9	60.8	54.9	51.4	3.5
17:00 - 18:00	62.2	61.1	55.2	53.3	1.9
18:00 - 19:00	60.7	59.6	53.7	51.1	2.6
19:00 - 20:00	60.5	59.2	53.5	50.4	3.1
20:00 - 21:00	60.9	59.4	56.4	51.1	5.3
21:00 - 22:00	60.2	59.6	53.2	50.7	2.5
22:00 - 23:00	59.7	58.8	52.7	49.4	3.3
23:00 - 00:00	59.6	58.1	55.1	49.6	5.5
00:00 - 01:00	58.7	57.9	51.7	49.7	2.0
01:00 - 02:00	58.9	58.6	51.9	50.6	1.3
02:00 - 03:00	59.0	58.4	52.0	49.7	2.3
03:00 - 04:00	58.4	57.7	51.4	49.3	2.1
04:00 - 05:00	59.5	58.0	55.0	51.6	3.4
05:00 - 06:00	59.2	58.3	52.2	51.1	1.1
06:00 - 07:00	60.1	59.1	53.1	51.6	1.5
07:00 - 08:00	63.4	62.3	56.4	52.8	3.6
08:00 - 09:00	64.2	63.1	57.2	52.4	4.8
09:00 - 10:00	64.1	62.7	57.1	53.9	3.2
10:00 - 11:00	64.5	63.8	57.5	53.4	4.1
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530177  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 10 - 11, 2024 Sampling Point : Construction area  
 Received Date : May 13, 2024 Analytical Date : May 15, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.4	97.5	64.1
12:00 - 13:00	65.7	97.0	64.2
13:00 - 14:00	65.8	98.4	64.8
14:00 - 15:00	64.5	98.5	63.5
15:00 - 16:00	63.2	91.2	61.1
16:00 - 17:00	61.5	98.1	60.6
17:00 - 18:00	62.1	94.7	61.7
18:00 - 19:00	60.3	92.8	59.6
19:00 - 20:00	60.5	89.5	59.4
20:00 - 21:00	60.4	88.4	59.1
21:00 - 22:00	60.8	88.9	59.6
22:00 - 23:00	59.9	89.7	58.9
23:00 - 00:00	59.4	90.2	58.6
00:00 - 01:00	58.7	89.7	57.8
01:00 - 02:00	59.6	86.7	58.7
02:00 - 03:00	59.1	87.1	58.1
03:00 - 04:00	58.6	86.9	57.6
04:00 - 05:00	59.5	87.5	58.5
05:00 - 06:00	59.1	89.9	58.6
06:00 - 07:00	60.4	92.2	59.5
07:00 - 08:00	63.3	90.7	62.8
08:00 - 09:00	63.5	96.5	62.7
09:00 - 10:00	63.4	94.7	62.6
10:00 - 11:00	64.1	95.1	63.4
24 Hour	62.3	98.5	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatwai Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530178  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 10-11, 2024 Sampling Point : Construction area  
 Received Date : May 13, 2024 Analytical Date : May 15, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.4	64.1	58.4	53.1	5.3
12:00 - 13:00	65.7	64.2	61.2	53.6	7.6
13:00 - 14:00	65.8	64.8	58.8	53.4	5.4
14:00 - 15:00	64.5	63.5	57.5	52.9	4.6
15:00 - 16:00	63.2	61.1	58.7	52.4	6.3
16:00 - 17:00	61.5	60.6	54.5	51.6	2.9
17:00 - 18:00	62.1	61.7	55.1	53.6	1.5
18:00 - 19:00	60.3	59.6	53.3	52.8	0.5
19:00 - 20:00	60.5	59.4	53.5	51.4	2.1
20:00 - 21:00	60.4	59.1	53.4	50.3	3.1
21:00 - 22:00	60.8	59.6	53.8	50.9	2.9
22:00 - 23:00	59.9	58.9	52.9	49.5	3.4
23:00 - 00:00	59.4	58.6	52.4	49.1	3.3
00:00 - 01:00	58.7	57.8	51.7	49.6	2.1
01:00 - 02:00	59.6	58.7	52.6	49.7	2.9
02:00 - 03:00	59.1	58.1	52.1	49.6	2.5
03:00 - 04:00	58.6	57.6	51.6	49.5	2.1
04:00 - 05:00	59.5	58.5	52.5	50.7	1.8
05:00 - 06:00	59.1	58.6	52.1	50.1	2.0
06:00 - 07:00	60.4	59.5	53.4	51.6	1.8
07:00 - 08:00	63.3	62.8	56.3	52.7	3.6
08:00 - 09:00	63.5	62.7	56.5	52.6	3.9
09:00 - 10:00	63.4	62.6	56.4	52.4	4.0
10:00 - 11:00	64.1	63.4	57.1	53.5	3.6
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240540049  
Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
Sampling Date : May 6-7, 2024 Sampling Point : Construction area  
Received Date : May 13, 2024 Analytical Date : May 15, 2024  
Sampling Method : - Sampling Condition : Good  
Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
06-05-24	12:46	0.4	6.6	0.9	13.9	0.7	19.2	24.6	10<f≤50
06-05-24	14:16	0.4	16.7	0.5	15.6	0.4	9.6	23.4	10<f≤50
06-05-24	15:45	0.3	22.7	0.7	35.7	0.5	10.0	32.9	10<f≤50
07-05-24	9:14	0.4	10.4	0.8	27.8	0.6	41.7	35.9	10<f≤50
07-05-24	10:35	0.7	50.0	1.1	41.7	0.6	7.8	40.0	10<f≤50
07-05-24	11:15	0.3	31.3	0.6	3.4	0.5	6.1	30.7	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240540050  
Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
Sampling Date : May 7-8, 2024 Sampling Point : Construction area  
Received Date : May 13, 2024 Analytical Date : May 15, 2024  
Sampling Method : - Sampling Condition : Good  
Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
07-05-24	12:47	2.8	22.7	2.8	0.5	1.4	13.2	26.4	10<f≤50
07-05-24	15:07	6.4	1.3	4.4	9.6	1.3	13.0	21.5	10<f≤50
07-05-24	16:18	0.6	26.4	0.5	1.7	1.1	7.8	28.2	10<f≤50
08-05-24	9:20	1.0	4.4	1.1	5.0	0.7	8.7	20.0	f≤10
08-05-24	10:07	7.0	22.7	2.0	35.7	26.4	25.0	32.9	10<f≤50
08-05-24	11:36	6.8	41.7	2.8	0.6	22.0	31.3	35.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240540051
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: May 8-9, 2024	Sampling Point	: Construction area
Received Date	: May 13, 2024	Analytical Date	: May 15, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
08-05-24	12:16	0.5	4.4	0.8	5.1	0.4	19.2	24.6	10<f≤50
08-05-24	14:35	0.4	25.0	0.2	8.6	0.8	25.0	27.5	10<f≤50
08-05-24	15:17	0.3	27.9	0.2	1.6	1.0	7.4	29.0	10<f≤50
09-05-24	9:14	0.9	4.2	1.1	4.8	0.6	8.1	20.0	f≤10
09-05-24	10:05	0.3	13.9	0.7	50.0	0.4	3.2	40.0	10<f≤50
09-05-24	11:35	0.4	11.4	0.8	11.9	0.5	12.5	21.3	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

  
 (Parinya Klumnoi)

Approved By :

  
 (Tawatchai Chongvutichai)



### ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240540052
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: May 9-10, 2024	Sampling Point	: Construction area
Received Date	: May 13, 2024	Analytical Date	: May 15, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
09-05-24	12:26	1.1	25.0	0.2	50.0	0.8	22.7	40.0	10<f≤50
09-05-24	13:37	0.8	19.2	0.2	8.6	0.9	25.0	27.5	10<f≤50
09-05-24	14:29	0.9	11.9	0.2	1.6	0.8	12.5	21.3	10<f≤50
10-05-24	9:18	0.8	27.8	1.1	31.3	0.4	27.8	30.7	10<f≤50
10-05-24	10:30	0.9	13.9	0.1	17.9	0.9	13.9	24.0	10<f≤50
10-05-24	11:18	0.6	3.4	1.0	7.6	0.7	4.2	20.0	f≤10

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :   
 (Parinya Klumnnoi)

Approved By :   
 (Tawatchai Chongvutichai)

### ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240540053
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: May 10-11, 2024	Sampling Point	: Construction area
Received Date	: May 13, 2024	Analytical Date	: May 15, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
10-05-24	12:30	1.0	11.9	0.2	0.4	0.9	15.6	22.8	10<f≤50
10-05-24	13:38	1.0	35.7	0.1	0.6	1.0	13.9	32.9	10<f≤50
10-05-24	14:56	1.2	17.9	0.2	0.6	0.8	14.7	24.0	10<f≤50
11-05-24	9:16	0.8	17.9	0.2	0.6	1.0	17.9	24.0	10<f≤50
11-05-24	10:35	0.7	40.0	1.3	40.2	0.8	8.0	35.1	10<f≤50
11-05-24	11:45	0.6	29.8	0.9	4.3	0.8	6.3	29.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

**Project** : The Panora Baan-Ampher **Report No.** : RN240510068  
**Sampling Source** : Ambient Air Quality **Sampling Location** : The Panora Baan-Ampher  
**Sampling Date** : May 13-18, 2024 **Sampling Point** : Construction Area  
**Received Date** : May 20, 2024 **Analytical Date** : May 22, 2024  
**Sampling Method** : US EPA 40 CFR 50 **Sample Condition** : Good

**Method of Analysis** : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	May 13-14, 2024	0.072	0.330
2	Total Suspended Paticulate (TSP)	May 14-15, 2024	0.069	0.330
3	Total Suspended Paticulate (TSP)	May 15-16, 2024	0.071	0.330
4	Total Suspended Paticulate (TSP)	May 16-17, 2024	0.078	0.330
5	Total Suspended Paticulate (TSP)	May 17-18, 2024	0.073	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :



(Parinya Klumnoi)

Analyzed By :



(Nijinart Matiyapak)

Approved By :



(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510069  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
 Sampling Date : May 13-18, 2024 Sampling Point : Construction Area  
 Received Date : May 20, 2024 Analytical Date : May 22, 2024  
 Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
 Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Paticulate Matter < 10 micron (PM-10)	May 13-14, 2024	0.041	0.120
2	Paticulate Matter < 10 micron (PM-10)	May 14-15, 2024	0.047	0.120
3	Paticulate Matter < 10 micron (PM-10)	May 15-16, 2024	0.046	0.120
4	Paticulate Matter < 10 micron (PM-10)	May 16-17, 2024	0.048	0.120
5	Paticulate Matter < 10 micron (PM-10)	May 17-18, 2024	0.042	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

  
 (Parinya Klumnoi)

Analyzed By :

  
 (Nijinart Matiyapak)

Approved By :

  
 (Tawatchai Chongvutichai)



### AMBIENT AIR MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240320006  
 Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 13-14, 2024 Sampling Point : Construction area  
 Received Date : May 20, 2024 Analytical Date : May 22, 2024  
 SO<sub>2</sub> Analyzer : HORIBA-APSA-370 Serial No. : 5FBMA08V  
 NO<sub>2</sub> Analyzer : HORIBA-APNA-370 Serial No. : 36WA70V3  
 CO Analyzer : TAPI-300E Serial No. : 226

Interval Time	SO <sub>2</sub> Average 1-Hour concentration (ppm)	NO <sub>2</sub> Average 1-Hour concentration (ppm)	CO Average 1-Hour concentration (ppm)
11:00 - 12:00	0.001	0.002	0.040
12:00 - 13:00	0.001	0.003	0.041
13:00 - 14:00	0.001	0.010	0.040
14:00 - 15:00	0.001	0.041	0.040
15:00 - 16:00	0.000	0.034	0.040
16:00 - 17:00	0.000	0.065	0.015
17:00 - 18:00	0.001	0.052	0.008
18:00 - 19:00	0.000	0.080	0.007
19:00 - 20:00	0.001	0.027	0.006
20:00 - 21:00	0.001	0.005	0.005
21:00 - 22:00	0.001	0.003	0.006
22:00 - 23:00	0.001	0.015	0.002
23:00 - 00:00	0.001	0.002	0.002
00:00 - 01:00	0.000	0.003	0.003
01:00 - 02:00	0.001	0.001	0.003
02:00 - 03:00	0.001	0.002	0.005
03:00 - 04:00	0.001	0.001	0.010
04:00 - 05:00	0.001	0.001	0.013
05:00 - 06:00	0.001	0.002	0.041
06:00 - 07:00	0.001	0.002	0.043
07:00 - 08:00	0.001	0.003	0.020
08:00 - 09:00	0.001	0.015	0.051
09:00 - 10:00	0.001	0.076	0.051
10:00 - 11:00	0.001	0.046	0.045
Min - Max	0-0.001	0.001-0.08	0.002-0.051
Standard 1 Hr	0.30 <sup>1/</sup>	0.17 <sup>2/</sup>	30 <sup>3/</sup>

Remark: <sup>1/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ.2544) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศทั่วไปในเวลา 1 ชั่วโมง  
<sup>2/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ.2552) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป  
<sup>3/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 10 (พ.ศ.2538) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchai Chongvutichai)



ห้องปฏิบัติการวิเคราะห์เอกชน บริษัท โอกลา เทสติ้ง แอนด์ คอนซัลติ่ง เซอร์วิส จำกัด

63/13 เพชรเกษม ซอย 7 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

โทร: (66)02-868-1246 โทรสาร: (66)02-868-1247 Website: [www.okla-testing.com](http://www.okla-testing.com) J-NAC Group

### ANALYSIS REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240520005  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Amphur  
Sampling Date : May 13-14, 2024 Sampling Point : Construction area  
Received Date : May 20, 2024 Analytical Date : Apr 22, 2024  
Analyzer : THC HORIBA APHA-370 Serial No. : LY1L4PRX  
Sample Condition : Drawn into one 10-L air sampling bag

Parameter	Result	Method
Methane; CH <sub>4</sub> (ppm)	1.554	Flame Ionization
Non-Methane; NMHC (ppm)	1.720	Flame Ionization
Total Hydrocarbon; THC (ppm)	3.274	Flame Ionization

Analyzed By:



(Parinya Klumnnoi)

Approved By:



(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530179  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 13 - 14, 2024      Sampling Point : Construction area  
 Received Date : May 22, 2024      Analytical Date : May 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.5	77.6	65.6
12:00 - 13:00	66.1	79.0	65.7
13:00 - 14:00	65.5	79.7	64.5
14:00 - 15:00	65.7	78.9	64.9
15:00 - 16:00	62.1	76.7	61.8
16:00 - 17:00	61.5	79.9	60.7
17:00 - 18:00	62.4	83.3	60.9
18:00 - 19:00	60.2	82.3	59.5
19:00 - 20:00	60.3	80.0	59.4
20:00 - 21:00	59.4	83.9	58.5
21:00 - 22:00	59.6	86.5	58.3
22:00 - 23:00	59.3	80.6	58.4
23:00 - 00:00	58.5	81.6	57.9
00:00 - 01:00	59.3	78.7	58.3
01:00 - 02:00	59.7	79.7	58.4
02:00 - 03:00	58.9	77.1	58.6
03:00 - 04:00	59.4	75.2	58.1
04:00 - 05:00	60.7	80.6	58.4
05:00 - 06:00	61.3	97.7	59.9
06:00 - 07:00	61.0	82.5	58.2
07:00 - 08:00	64.2	81.0	63.3
08:00 - 09:00	64.5	76.8	63.2
09:00 - 10:00	65.1	86.7	64.2
10:00 - 11:00	64.5	73.0	63.9
24 Hour	62.7	97.7	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 270, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530180  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 13-14, 2024      Sampling Point : Construction area  
 Received Date : May 22, 2024      Analytical Date : May 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.5	65.6	59.5	53.1	6.4
12:00 - 13:00	66.1	65.7	59.1	53.9	5.2
13:00 - 14:00	65.5	64.5	58.5	53.6	4.9
14:00 - 15:00	65.7	64.9	58.7	50.1	8.6
15:00 - 16:00	62.1	61.8	55.1	51.4	3.7
16:00 - 17:00	61.5	60.7	54.5	51.6	2.9
17:00 - 18:00	62.4	60.9	57.9	52.8	5.1
18:00 - 19:00	60.2	59.5	53.2	51.9	1.3
19:00 - 20:00	60.3	59.4	53.3	50.4	2.9
20:00 - 21:00	59.4	58.5	52.4	50.6	1.8
21:00 - 22:00	59.6	58.3	52.6	51.7	0.9
22:00 - 23:00	59.3	58.4	52.3	49.2	3.1
23:00 - 00:00	58.5	57.9	51.5	49.6	1.9
00:00 - 01:00	59.3	58.3	52.3	50.3	2.0
01:00 - 02:00	59.7	58.4	52.7	51.1	1.6
02:00 - 03:00	58.9	58.6	51.9	49.5	2.4
03:00 - 04:00	59.4	58.1	52.4	49.3	3.1
04:00 - 05:00	60.7	58.4	56.2	51.6	4.6
05:00 - 06:00	61.3	59.9	54.3	52.4	1.9
06:00 - 07:00	61.0	58.2	58.0	53.6	4.4
07:00 - 08:00	64.2	63.3	57.2	51.5	5.7
08:00 - 09:00	64.5	63.2	57.5	51.3	6.2
09:00 - 10:00	65.1	64.2	58.1	51.5	6.6
10:00 - 11:00	64.5	63.9	57.5	52.7	4.8
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatana Chongvutchai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530181  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 14 - 15, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.7	77.6	65.9
12:00 - 13:00	65.9	79.0	65.6
13:00 - 14:00	65.3	79.7	64.7
14:00 - 15:00	65.8	78.9	65.0
15:00 - 16:00	63.4	76.7	62.1
16:00 - 17:00	62.5	79.9	61.5
17:00 - 18:00	62.9	83.3	61.2
18:00 - 19:00	60.1	82.3	59.6
19:00 - 20:00	60.5	80.0	59.5
20:00 - 21:00	59.6	83.9	58.7
21:00 - 22:00	59.1	86.5	58.6
22:00 - 23:00	59.5	80.6	58.8
23:00 - 00:00	58.4	81.6	57.6
00:00 - 01:00	59.6	78.7	58.5
01:00 - 02:00	59.4	79.7	58.9
02:00 - 03:00	58.1	77.1	58.7
03:00 - 04:00	58.6	75.2	58.5
04:00 - 05:00	60.8	80.6	59.9
05:00 - 06:00	61.2	97.7	60.1
06:00 - 07:00	61.5	82.5	59.7
07:00 - 08:00	63.6	81.0	62.5
08:00 - 09:00	64.4	76.8	63.5
09:00 - 10:00	65.2	86.7	64.9
10:00 - 11:00	65.0	73.0	63.5
24 Hour	62.8	97.7	58.5
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530182  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 14-15, 2024      Sampling Point : Construction area  
 Received Date : May 22, 2024      Analytical Date : May 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.7	65.9	59.7	52.9	6.8
12:00 - 13:00	65.9	65.6	58.9	53.7	5.2
13:00 - 14:00	65.3	64.7	58.3	52.4	5.9
14:00 - 15:00	65.8	65.0	58.8	50.6	8.2
15:00 - 16:00	63.4	62.1	56.4	51.6	4.8
16:00 - 17:00	62.5	61.5	55.5	51.2	4.3
17:00 - 18:00	62.9	61.2	58.4	52.9	5.5
18:00 - 19:00	60.1	59.6	53.1	52.0	1.1
19:00 - 20:00	60.5	59.5	53.5	51.7	1.8
20:00 - 21:00	59.6	58.7	52.6	50.3	2.3
21:00 - 22:00	59.1	58.6	52.1	51.7	0.4
22:00 - 23:00	59.5	58.8	52.5	49.5	3.0
23:00 - 00:00	58.4	57.6	51.4	49.6	1.8
00:00 - 01:00	59.6	58.5	52.6	50.2	2.4
01:00 - 02:00	59.4	58.9	52.4	51.5	0.9
02:00 - 03:00	58.1	58.7	51.1	49.3	1.8
03:00 - 04:00	58.6	58.5	51.6	49.7	1.9
04:00 - 05:00	60.8	59.9	53.8	49.6	4.2
05:00 - 06:00	61.2	60.1	54.2	50.3	3.9
06:00 - 07:00	61.5	59.7	57.0	52.4	4.6
07:00 - 08:00	63.6	62.5	56.6	51.8	4.8
08:00 - 09:00	64.4	63.5	57.4	51.6	5.8
09:00 - 10:00	65.2	64.9	58.2	51.7	6.5
10:00 - 11:00	65.0	63.5	60.5	52.9	7.6
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530183  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 15 - 16, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.5	89.5	64.3
12:00 - 13:00	65.2	87.6	64.7
13:00 - 14:00	64.7	91.5	63.8
14:00 - 15:00	65.1	92.4	64.2
15:00 - 16:00	64.9	93.4	63.5
16:00 - 17:00	63.9	92.0	62.4
17:00 - 18:00	63.4	97.8	61.9
18:00 - 19:00	62.1	96.8	59.8
19:00 - 20:00	60.7	92.0	59.7
20:00 - 21:00	59.8	98.5	58.5
21:00 - 22:00	59.6	99.1	58.3
22:00 - 23:00	59.1	97.8	58.6
23:00 - 00:00	58.5	89.7	57.9
00:00 - 01:00	59.2	86.9	58.1
01:00 - 02:00	59.7	87.9	58.4
02:00 - 03:00	58.5	89.8	58.2
03:00 - 04:00	58.2	86.7	58.9
04:00 - 05:00	60.4	90.5	59.5
05:00 - 06:00	61.3	92.1	60.5
06:00 - 07:00	61.5	92.7	59.1
07:00 - 08:00	63.4	91.3	62.0
08:00 - 09:00	64.5	91.5	63.1
09:00 - 10:00	64.7	92.7	63.6
10:00 - 11:00	65.2	93.1	64.8
24 Hour	62.8	99.1	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawana Jongsomjit)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530184  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 15-16, 2024      Sampling Point : Construction area  
 Received Date : May 22, 2024      Analytical Date : May 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.5	64.3	58.5	53.1	5.4
12:00 - 13:00	65.2	64.7	58.2	53.4	4.8
13:00 - 14:00	64.7	63.8	57.7	52.6	5.1
14:00 - 15:00	65.1	64.2	58.1	50.9	7.2
15:00 - 16:00	64.9	63.5	60.4	51.4	9.0
16:00 - 17:00	63.9	62.4	59.4	51.6	7.8
17:00 - 18:00	63.4	61.9	58.9	52.5	6.4
18:00 - 19:00	62.1	59.8	57.6	52.4	5.2
19:00 - 20:00	60.7	59.7	53.7	51.1	2.6
20:00 - 21:00	59.8	58.5	52.8	50.9	1.9
21:00 - 22:00	59.6	58.3	52.6	51.4	1.2
22:00 - 23:00	59.1	58.6	52.1	49.6	2.5
23:00 - 00:00	58.5	57.9	51.5	49.7	1.8
00:00 - 01:00	59.2	58.1	52.2	50.8	1.4
01:00 - 02:00	59.7	58.4	52.7	51.6	1.1
02:00 - 03:00	58.5	58.2	51.5	49.7	1.8
03:00 - 04:00	58.2	58.9	51.2	49.2	2.0
04:00 - 05:00	60.4	59.5	53.4	49.6	3.8
05:00 - 06:00	61.3	60.5	54.3	50.4	3.9
06:00 - 07:00	61.5	59.1	57.0	52.5	4.5
07:00 - 08:00	63.4	62.0	56.4	51.3	5.1
08:00 - 09:00	64.5	63.1	57.5	51.4	6.1
09:00 - 10:00	64.7	63.6	57.7	52.0	5.7
10:00 - 11:00	65.2	64.8	58.2	52.4	5.8
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

  
 (Parinya Klumnnoi)

Approved By:

  
 (Tawatchail Chongvutichai)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530185  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 16 - 17, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.1	85.5	65.3
12:00 - 13:00	65.7	84.9	64.7
13:00 - 14:00	65.3	86.6	63.2
14:00 - 15:00	64.5	86.7	63.5
15:00 - 16:00	64.2	89.5	63.8
16:00 - 17:00	63.7	90.7	62.1
17:00 - 18:00	63.1	91.2	62.5
18:00 - 19:00	62.5	85.0	60.3
19:00 - 20:00	61.1	86.1	59.7
20:00 - 21:00	59.2	86.4	58.6
21:00 - 22:00	59.8	87.5	58.1
22:00 - 23:00	59.6	85.0	58.9
23:00 - 00:00	58.7	85.9	57.2
00:00 - 01:00	59.8	82.1	58.5
01:00 - 02:00	59.7	83.1	58.8
02:00 - 03:00	59.6	84.9	58.4
03:00 - 04:00	59.4	86.2	58.6
04:00 - 05:00	60.1	87.4	59.5
05:00 - 06:00	60.2	89.5	59.7
06:00 - 07:00	61.7	90.3	60.3
07:00 - 08:00	62.2	89.8	61.1
08:00 - 09:00	63.5	81.4	62.2
09:00 - 10:00	63.9	83.7	62.7
10:00 - 11:00	64.2	82.9	63.4
24 Hour	62.6	91.2	58.4
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 270, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240530186  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 16-17, 2024      Sampling Point : Construction area  
 Received Date : May 22, 2024      Analytical Date : May 24, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.1	65.3	59.1	53.4	5.7
12:00 - 13:00	65.7	64.7	58.7	53.6	5.1
13:00 - 14:00	65.3	63.2	60.8	52.8	8.0
14:00 - 15:00	64.5	63.5	57.5	51.7	5.8
15:00 - 16:00	64.2	63.8	57.2	51.6	5.6
16:00 - 17:00	63.7	62.1	59.2	51.9	7.3
17:00 - 18:00	63.1	62.5	56.1	52.2	3.9
18:00 - 19:00	62.5	60.3	58.0	52.9	5.1
19:00 - 20:00	61.1	59.7	54.1	51.4	2.7
20:00 - 21:00	59.2	58.6	52.2	50.8	1.4
21:00 - 22:00	59.8	58.1	55.3	51.6	3.7
22:00 - 23:00	59.6	58.9	52.6	49.1	3.5
23:00 - 00:00	58.7	57.2	54.2	49.5	4.7
00:00 - 01:00	59.8	58.5	52.8	50.6	2.2
01:00 - 02:00	59.7	58.8	52.7	51.1	1.6
02:00 - 03:00	59.6	58.4	52.6	49.4	3.2
03:00 - 04:00	59.4	58.6	52.4	49.5	2.9
04:00 - 05:00	60.1	59.5	53.1	49.2	3.9
05:00 - 06:00	60.2	59.7	53.2	50.1	3.1
06:00 - 07:00	61.7	60.3	57.2	52.3	4.9
07:00 - 08:00	62.2	61.1	55.2	51.4	3.8
08:00 - 09:00	63.5	62.2	56.5	51.9	4.6
09:00 - 10:00	63.9	62.7	56.9	52.8	4.1
10:00 - 11:00	64.2	63.4	57.2	52.3	4.9
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchar Chongvatana)



### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530187  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 17 - 18, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	65.7	88.9	64.9
12:00 - 13:00	65.2	81.4	64.9
13:00 - 14:00	64.9	82.9	64.2
14:00 - 15:00	64.2	82.5	63.7
15:00 - 16:00	65.8	89.6	64.7
16:00 - 17:00	63.5	90.7	62.5
17:00 - 18:00	63.9	93.2	62.1
18:00 - 19:00	62.7	93.7	61.4
19:00 - 20:00	60.5	95.1	59.8
20:00 - 21:00	59.7	94.6	58.1
21:00 - 22:00	59.2	93.5	58.9
22:00 - 23:00	59.5	90.1	58.3
23:00 - 00:00	58.3	88.9	57.6
00:00 - 01:00	59.7	88.1	58.5
01:00 - 02:00	59.3	87.8	58.1
02:00 - 03:00	59.8	85.5	58.7
03:00 - 04:00	59.9	86.4	58.6
04:00 - 05:00	59.7	87.5	59.6
05:00 - 06:00	60.5	83.0	59.2
06:00 - 07:00	60.8	86.6	59.7
07:00 - 08:00	62.4	90.0	60.5
08:00 - 09:00	63.1	91.2	62.1
09:00 - 10:00	63.5	92.7	62.5
10:00 - 11:00	64.8	90.3	62.7
24 Hour	62.6	95.1	58.2
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530188  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 17-18, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	65.7	64.9	58.7	53.7	5.0
12:00 - 13:00	65.2	64.9	58.2	53.4	4.8
13:00 - 14:00	64.9	64.2	57.9	52.9	5.0
14:00 - 15:00	64.2	63.7	57.2	52.6	4.6
15:00 - 16:00	65.8	64.7	58.8	52.8	6.0
16:00 - 17:00	63.5	62.5	56.5	52.1	4.4
17:00 - 18:00	63.9	62.1	59.4	52.5	6.9
18:00 - 19:00	62.7	61.4	55.7	52.4	3.3
19:00 - 20:00	60.5	59.8	53.5	51.9	1.6
20:00 - 21:00	59.7	58.1	55.2	50.4	4.8
21:00 - 22:00	59.2	58.9	52.2	50.3	1.9
22:00 - 23:00	59.5	58.3	52.5	49.5	3.0
23:00 - 00:00	58.3	57.6	51.3	49.1	2.2
00:00 - 01:00	59.7	58.5	52.7	49.7	3.0
01:00 - 02:00	59.3	58.1	52.3	49.6	2.7
02:00 - 03:00	59.8	58.7	52.8	49.9	2.9
03:00 - 04:00	59.9	58.6	52.9	49.6	3.3
04:00 - 05:00	59.7	59.6	52.7	49.8	2.9
05:00 - 06:00	60.5	59.2	53.5	50.5	3.0
06:00 - 07:00	60.8	59.7	53.8	52.4	1.4
07:00 - 08:00	62.4	60.5	57.9	52.4	5.5
08:00 - 09:00	63.1	62.1	56.1	51.8	4.3
09:00 - 10:00	63.5	62.5	56.5	52.6	3.9
10:00 - 11:00	64.8	62.7	60.3	52.4	7.9
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)



**ANALYSIS REPORT**

Project : The Panora Baan-Amphur Report No. : RN240540054  
Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
Sampling Date : May 13-14, 2024 Sampling Point : Construction area  
Received Date : May 20, 2024 Analytical Date : May 22, 2024  
Sampling Method : - Sampling Condition : Good  
Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
13-05-24	12:29	0.8	16.7	0.2	29.4	0.7	24.6	29.7	10<f≤50
13-05-24	13:34	1.2	17.9	0.2	27.8	0.2	11.9	28.9	10<f≤50
13-05-24	14:56	0.8	19.2	0.2	19.2	1.5	10.9	24.6	10<f≤50
14-05-24	9:28	0.8	16.4	0.7	24.5	1.3	25.1	27.6	10<f≤50
14-05-24	10:48	0.9	17.2	0.9	26.7	1.8	26.7	28.4	10<f≤50
14-05-24	11:53	2.8	12.9	2.0	27.8	10.0	27.8	28.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :   
(Parinya Klumnoi)

Approved By :   
(Tawatchai Chongvutichai)

Project

: The Panora Baan-Amphur

Report No.

: RN240540055

Sampling Source

: The Panora Baan-Amphur

Sampling Location

: Construction area

Sampling Date

: May 14-15, 2024

Sampling Point

: Construction area

Received Date

: May 20, 2024

Analytical Date

: May 22, 2024

Sampling Method

: -

Sampling Condition

: Good

Measured Instrument

: Vibrock V 9000

Serial No.

: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
14-05-24	12:16	0.5	25.0	0.2	19.2	0.9	20.0	27.5	10<f≤50
14-05-24	13:34	1.1	14.7	0.2	19.2	0.2	12.5	24.6	10<f≤50
14-05-24	14:42	0.9	25.0	0.2	35.7	0.1	20.5	32.9	10<f≤50
15-05-24	10:09	0.3	9.6	0.1	10.9	0.7	11.4	20.7	10<f≤50
15-05-24	11:15	0.7	34.2	0.8	3.5	0.7	6.4	32.1	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240540056
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: May 15-16, 2024	Sampling Point	: Construction area
Received Date	: May 20, 2024	Analytical Date	: May 20, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
15-05-24	12:11	0.6	19.2	0.2	28.1	0.8	16.7	29.1	10<f≤50
15-05-24	13:30	0.7	16.7	0.2	25.7	1.0	10.0	27.9	10<f≤50
15-05-24	14:29	1.0	14.7	0.1	26.1	0.1	31.3	30.7	10<f≤50
16-05-24	9:03	2.2	10.0	0.2	10.9	1.6	31.3	30.7	10<f≤50
16-05-24	10:35	0.6	22.5	2.7	15.9	0.5	2.7	26.3	10<f≤50
16-05-24	11:35	0.8	33.4	3.6	26.4	1.8	18.8	31.7	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :   
 (Parinya Klumnoi)

Approved By :   
 (Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240540057
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: May 16-17, 2024	Sampling Point	: Construction area
Received Date	: May 20, 2024	Analytical Date	: May 22, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
16-05-24	12:19	0.4	17.9	0.1	11.4	0.8	20.8	25.4	10<f≤50
16-05-24	13:11	1.0	14.7	0.2	35.7	1.0	16.7	32.9	10<f≤50
16-05-24	14:25	0.4	15.6	0.2	10.9	0.8	13.9	22.8	10<f≤50
17-05-24	9:27	0.7	22.7	0.2	27.8	0.2	31.3	30.7	10<f≤50
17-05-24	10:51	2.2	50.0	0.2	27.8	4.0	11.9	40.0	10<f≤50
17-05-24	11:49	2.5	5.7	2.4	27.8	1.4	5.6	28.9	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :



(Parinya Klumnoi)

Approved By :



(Tawatchai Chongvutichai)



### ANALYSIS REPORT

Project : The Panora Baan-Amphur Report No. : RN240540058  
 Sampling Source : The Panora Baan-Amphur Sampling Location : Construction area  
 Sampling Date : May 17-18, 2024 Sampling Point : Construction area  
 Received Date : May 20, 2024 Analytical Date : May 22, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Vibrock V 9000 Serial No. : 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
17-05-24	12:28	0.4	25.0	1.0	27.8	0.8	20.8	28.9	10<f≤50
17-05-24	13:33	1.1	14.7	0.2	10.9	0.1	31.3	30.7	10<f≤50
17-05-24	14:41	0.8	4.3	0.2	19.2	0.1	27.8	28.9	10<f≤50
18-05-24	9:54	6.0	31.3	0.2	19.2	2.8	12.5	30.7	10<f≤50
18-05-24	10:33	0.6	17.9	0.2	27.8	1.0	19.2	28.9	10<f≤50
18-05-24	11:58	4.4	31.3	2.4	50.0	5.0	27.8	40.0	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)

ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510070  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : May 20-21, 2024 Sampling Point : Construction Area  
Received Date : May 22, 2024 Analytical Date : May 24, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Total Suspended Paticulate (TSP)	May 20-21, 2024	0.076	0.330

Remark: 1/ Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

(Parinya Klumnoi)

Analyzed By :

(Nijinart Matiyapak)

Approved By :

(Tawatchai Chongvutichai)



## ANALYSIS REPORT

Project : The Panora Baan-Ampher Report No. : RN240510071  
Sampling Source : Ambient Air Quality Sampling Location : The Panora Baan-Ampher  
Sampling Date : May 20-21, 2024 Sampling Point : Construction Area  
Received Date : May 22, 2024 Analytical Date : May 24, 2024  
Sampling Method : US EPA 40 CFR 50 Sample Condition : Good

Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Parameter	Sampling Date	Result (mg/cu.m)	Standard (mg/cu.m) <sup>1/</sup>
1	Particulate Matter < 10 micron (PM-10)	May 20-21, 2024	0.044	0.120

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality

Standard in General Atmosphere

Sampling By :

(Parinya Klumnoi)

Analyzed By :

(Nijirakorn Jitkarn)

Approved By :

(Tawatchai Chongvutichai)

### NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530189  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 20 - 21, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.5	81.5	65.2
12:00 - 13:00	65.9	89.4	64.5
13:00 - 14:00	65.2	86.8	64.2
14:00 - 15:00	65.7	87.1	64.9
15:00 - 16:00	62.9	98.5	61.7
16:00 - 17:00	61.5	87.5	60.5
17:00 - 18:00	62.5	88.5	60.7
18:00 - 19:00	60.4	79.5	58.9
19:00 - 20:00	60.5	79.3	58.6
20:00 - 21:00	59.7	78.5	58.1
21:00 - 22:00	59.6	90.2	58.6
22:00 - 23:00	59.3	87.5	58.4
23:00 - 00:00	58.6	83.1	57.9
00:00 - 01:00	59.7	84.5	58.6
01:00 - 02:00	59.1	87.5	58.1
02:00 - 03:00	58.7	81.9	57.6
03:00 - 04:00	59.8	83.6	58.6
04:00 - 05:00	60.2	80.5	59.7
05:00 - 06:00	62.5	90.1	61.1
06:00 - 07:00	61.4	92.4	60.3
07:00 - 08:00	64.3	87.5	63.7
08:00 - 09:00	64.5	86.9	63.9
09:00 - 10:00	63.7	79.4	62.8
10:00 - 11:00	64.7	81.7	62.5
24 Hour	62.7	98.5	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240530190  
 Sampling Source : Community Noise Sampling Location : The Panora Baan-Amphur  
 Sampling Date : May 20-21, 2024 Sampling Point : Construction area  
 Received Date : May 22, 2024 Analytical Date : May 24, 2024  
 Sampling Method : - Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.5	65.2	59.5	53.4	6.1
12:00 - 13:00	65.9	64.5	61.4	53.2	8.2
13:00 - 14:00	65.2	64.2	58.2	53.9	4.3
14:00 - 15:00	65.7	64.9	58.7	50.4	8.3
15:00 - 16:00	62.9	61.7	55.9	51.5	4.4
16:00 - 17:00	61.5	60.5	54.5	51.7	2.8
17:00 - 18:00	62.5	60.7	58.0	52.6	5.4
18:00 - 19:00	60.4	58.9	55.9	51.4	4.5
19:00 - 20:00	60.5	58.6	56.0	50.7	5.3
20:00 - 21:00	59.7	58.1	55.2	50.3	4.9
21:00 - 22:00	59.6	58.6	52.6	51.9	0.7
22:00 - 23:00	59.3	58.4	52.3	49.1	3.2
23:00 - 00:00	58.6	57.9	51.6	49.7	1.9
00:00 - 01:00	59.7	58.6	52.7	49.3	3.4
01:00 - 02:00	59.1	58.1	52.1	50.2	1.9
02:00 - 03:00	58.7	57.6	51.7	49.7	2.0
03:00 - 04:00	59.8	58.6	52.8	50.3	2.5
04:00 - 05:00	60.2	59.7	53.2	51.1	2.1
05:00 - 06:00	62.5	61.1	55.5	51.4	4.1
06:00 - 07:00	61.4	60.3	54.4	52.6	1.8
07:00 - 08:00	64.3	63.7	57.3	51.7	5.6
08:00 - 09:00	64.5	63.9	57.5	52.9	4.6
09:00 - 10:00	63.7	62.8	56.7	51.8	4.9
10:00 - 11:00	64.7	62.5	60.2	52.5	7.7
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of SIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240540059
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: May 20-21, 2024	Sampling Point	: Construction area
Received Date	: May 22, 2024	Analytical Date	: May 24, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
20-05-24	12:19	0.9	4.8	4.4	41.7	10.2	35.7	35.9	10<f≤50
20-05-24	13:28	1.0	15.6	0.2	31.1	1.6	9.6	30.6	10<f≤50
20-05-24	14:45	1.3	5.8	1.2	8.1	1.3	5.8	20.0	f≤10
21-05-24	9:14	0.4	10.4	0.8	27.8	0.6	41.7	35.9	10<f≤50
21-05-24	10:35	0.8	30.0	1.2	42.5	0.8	7.9	36.3	10<f≤50
21-05-24	11:45	1.3	34.2	1.0	4.1	0.7	7.9	32.1	10<f≤50

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

  
 (Parinya Klumnoi)

Approved By

  
 (Tawatchai Chongvutichai)



## Analysis Report

Project : The Panora Baan-Amphur Report No. : RN2400610052  
 Sampling Source : Ambient Air Quality Sampling Location : Construction area  
 Sampling Date : Jun 17-18, 2024 Sampling Point : Construction area  
 Received Date : Jun 19, 2024 Analytical Date : Jun 21, 2024  
 Sampling Method : US EPA 40 CFR 50 Sample Condition : Good  
 Method of Analysis : High-Volume Air Sampler/ Gravimetric Method

Item	Sampling Date	Result (mg/cu m)		Remark
		TSP	PM10	
1	Jun 17-18, 2024	0.075	0.043	
	Standard	0.330 <sup>1/</sup>	0.120 <sup>1/</sup>	

Remark: <sup>1/</sup> Notification of National Environmental Board No.24 (B.E. 2547) Prescription of Air Quality Standard in General Atmosphere

Sampling By :

(Parinya Klumnoi)

Analyzed By :

(Nijinart Matiyapak)

Approved By :

(Tawatchai Chongvutichai)

### AMBIENT AIR MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240620005  
 Sampling Source : Ambient Air Quality      Sampling Location : Construction area  
 Sampling Date : Jun 17-18, 2024      Sampling Point : Construction area  
 Received Date : Jun 19, 2024      Analytical Date : Jun 21, 2024  
 SO<sub>2</sub> Analyzer : HORIBA-APSA-370      Serial No. : 5FBMA08V  
 NO<sub>2</sub> Analyzer : HORIBA-APNA-370      Serial No. : 36WA70V3  
 CO Analyzer : TAPI-300E      Serial No. : 226

Interval Time	SO <sub>2</sub> Average 1-Hour concentration (ppm)	NO <sub>2</sub> Average 1-Hour concentration (ppm)	CO Average 1-Hour concentration (ppm)
11:00 - 12:00	0.001	0.002	0.043
12:00 - 13:00	0.001	0.008	0.040
13:00 - 14:00	0.001	0.009	0.040
14:00 - 15:00	0.001	0.050	0.040
15:00 - 16:00	0.001	0.037	0.046
16:00 - 17:00	0.001	0.068	0.013
17:00 - 18:00	0.001	0.050	0.008
18:00 - 19:00	0.001	0.074	0.008
19:00 - 20:00	0.001	0.025	0.006
20:00 - 21:00	0.001	0.005	0.005
21:00 - 22:00	0.001	0.002	0.004
22:00 - 23:00	0.001	0.002	0.002
23:00 - 00:00	0.001	0.001	0.002
00:00 - 01:00	0.001	0.001	0.003
01:00 - 02:00	0.001	0.001	0.004
02:00 - 03:00	0.001	0.001	0.005
03:00 - 04:00	0.001	0.001	0.011
04:00 - 05:00	0.001	0.001	0.012
05:00 - 06:00	0.001	0.001	0.048
06:00 - 07:00	0.001	0.001	0.041
07:00 - 08:00	0.001	0.003	0.022
08:00 - 09:00	0.001	0.018	0.056
09:00 - 10:00	0.001	0.091	0.052
10:00 - 11:00	0.000	0.051	0.045
Min - Max	0-0.001	0.001-0.091	0.002-0.056
Standard 1 Hr	0.30 <sup>1/</sup>	0.17 <sup>2/</sup>	30 <sup>3/</sup>

Remark: <sup>1/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ.2544) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศทั่วไปในเวลา 1 ชั่วโมง  
<sup>2/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ.2552) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป  
<sup>3/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 10 (พ.ศ.2538) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Sampling By:   
 (Parinya Klumnoi)

Approved By:   
 (Tawatchai Chongvutichai)



ANALYSIS REPORT

Project Name : The Panora Baan-Amphur Report No. : RN240620003  
Sampling Source : Ambient Air Quality Sampling Location : Construction area  
Sampling Date : Jun 17-18, 2024 Sampling Point : Construction area  
Received Date : Jun 19, 2024 Analytical Date : Jun 21, 2024  
Analyzer : THC HORIBA APHA-370 Serail No. : LY1L4PRX  
Sample Condition : Drawn into one 10-L air sampling bag

Parameter	Result	Method
Methane; CH <sub>4</sub> (ppm)	1.688	Flame Ionization
Non-Methane; NMHC (ppm)	1.801	Flame Ionization
Total Hydrocarbon; THC (ppm)	3.489	Flame Ionization

Analyzed By:



(Parinya Klumnoi)

Approved By:



(Tawatchai Chongvutichai)

## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240630109  
 Sampling Source : Community Noise      Sampling Location : Construction area  
 Sampling Date : Jun 17 - 18, 2024      Sampling Point : Construction area  
 Received Date : Jun 19, 2024      Analytical Date : Jun 21, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. 17030644674

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
11:00 - 12:00	66.9	100.6	65.4
12:00 - 13:00	66.3	99.0	65.5
13:00 - 14:00	65.1	92.4	64.1
14:00 - 15:00	65.4	95.2	64.8
15:00 - 16:00	62.6	84.2	61.8
16:00 - 17:00	61.9	83.6	60.6
17:00 - 18:00	62.3	88.5	60.8
18:00 - 19:00	60.3	83.3	58.4
19:00 - 20:00	60.6	82.4	58.7
20:00 - 21:00	59.3	81.2	58.0
21:00 - 22:00	59.4	87.5	58.1
22:00 - 23:00	59.1	81.0	58.3
23:00 - 00:00	58.4	83.9	57.4
00:00 - 01:00	59.2	83.6	58.3
01:00 - 02:00	59.2	84.4	58.4
02:00 - 03:00	58.9	88.4	58.3
03:00 - 04:00	59.7	84.1	58.6
04:00 - 05:00	60.7	83.5	58.4
05:00 - 06:00	61.7	102.0	59.9
06:00 - 07:00	61.0	97.1	58.6
07:00 - 08:00	62.6	102.3	61.3
08:00 - 09:00	65.1	102.9	63.0
09:00 - 10:00	65.2	101.7	64.7
10:00 - 11:00	64.2	90.7	63.6
24 Hour	62.7	102.9	58.1
Standard*	70.0	115.0	-

Remark: \* Notification of the Ministry of National Environmental Board, No.15, B.E.2540, which was published  
 in the Royal Government Gazette, Vol.114, Part 27D, B.E.2540

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchai Chongvutichai)



## NOISE MONITORING REPORT

Project Name : The Panora Baan-Amphur      Report No. : RN240630110  
 Sampling Source : Community Noise      Sampling Location : The Panora Baan-Amphur  
 Sampling Date : Jun 17-18, 2024      Sampling Point : Construction area  
 Received Date : Jun 19, 2024      Analytical Date : Jun 21, 2024  
 Sampling Method : -      Sampling Condition : Good  
 Measured Instrument : Integrated Sound Level Meter Delta OHM      Serial No. : 17030644674

Interval Time	Noise Level (dB(A))				
	Leq form source	Residual Noise	Specific Noise	Background Noise	Annoyance Noise Level
11:00 - 12:00	66.9	65.4	62.4	52.7	9.7
12:00 - 13:00	66.3	65.5	59.3	53.7	5.6
13:00 - 14:00	65.1	64.1	58.1	53.3	4.8
14:00 - 15:00	65.4	64.8	58.4	52.4	6.0
15:00 - 16:00	62.6	61.8	55.6	51.6	4.0
16:00 - 17:00	61.9	60.6	54.9	51.2	3.7
17:00 - 18:00	62.3	60.8	57.8	52.9	4.9
18:00 - 19:00	60.3	58.4	55.8	51.9	3.9
19:00 - 20:00	60.6	58.7	56.1	51.6	4.5
20:00 - 21:00	59.3	58.0	52.3	50.4	1.9
21:00 - 22:00	59.4	58.1	52.4	51.3	1.1
22:00 - 23:00	59.1	58.3	52.1	49.2	2.9
23:00 - 00:00	58.4	57.4	51.4	49.1	2.3
00:00 - 01:00	59.2	58.3	52.2	50.1	2.1
01:00 - 02:00	59.2	58.4	52.2	50.0	2.2
02:00 - 03:00	58.9	58.3	51.9	49.0	2.9
03:00 - 04:00	59.7	58.6	52.7	49.9	2.8
04:00 - 05:00	60.7	58.4	56.2	50.3	5.9
05:00 - 06:00	61.7	59.9	57.2	51.6	5.6
06:00 - 07:00	61.0	58.6	58.0	53.1	4.9
07:00 - 08:00	62.6	61.3	55.6	51.2	4.4
08:00 - 09:00	65.1	63.0	60.6	53.7	6.9
09:00 - 10:00	65.2	64.7	58.2	50.6	7.6
10:00 - 11:00	64.2	63.6	57.2	50.2	7.0
Standard*	-	-	-	-	10

Remark: \* Notification of the Ministry of National Environmental Board, No.29 (B.E.2550) Prescription of Standard Noise Level

Residual Noise Level was measured in project area on July 16, 2015 while preparation of EIA

Sampling By:

(Parinya Klumnoi)

Approved By:

(Tawatchail Chongvutichai)

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

## ANALYSIS REPORT

Project	: The Panora Baan-Amphur	Report No.	: RN240640019
Sampling Source	: The Panora Baan-Amphur	Sampling Location	: Construction area
Sampling Date	: Jun 17-18, 2024	Sampling Point	: Construction area
Received Date	: Jun 19, 2024	Analytical Date	: Jun 21, 2024
Sampling Method	: -	Sampling Condition	: Good
Measured Instrument	: Vibrock V 9000	Serial No.	: 2341

Date	Time	TRANSVERSE		VERTICAL		LONGTITUDINAL		มาตรฐาน	
		PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)	PPV (mm/s)	Freq (Hz)
17-06-24	12:17:26	0.4	22.7	0.6	22.7	0.6	22.7	26.4	10<f≤50
17-06-24	13:48:41	0.3	8.9	0.6	19.2	0.5	22.7	26.4	10<f≤50
17-06-24	14:08:02	0.3	11.6	0.8	23.8	0.8	22.7	26.9	10<f≤50
18-06-24	9:18:31	0.5	55.6	0.7	17.9	0.4	21.7	41.1	50<f≤100
18-06-24	11:09:52	1.6	55.6	1.0	125.0	1.5	29.4	50.0	f>100

Remark : มาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 37 พ.ศ. 2553 เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร

Analyzed By :

(Parinya Klumnoi)

Approved By :

(Tawatchai Chongvutichai)



ANALYSIS REPORT

CUSTOMER NAME : The Panora Baan Amphur  
ADDRESS : ตำบลนาจอมเทียน อำเภอสัตหีบ จังหวัดชลบุรี  
SAMPLING LOCATION : บ่อพักน้ำทิ้งของโครงการ  
SAMPLING METHOD : GRAB  
SAMPLING CONDITION : NORMAL  
CHARACTERISTICS OF WATER : น้ำตาลปน มีตะกอน มีกลิ่น  
SAMPLING DATE : JUNE 28, 2024  
SAMPLING TIME : 10:50  
SAMPLING BY : นายปริญญา กล้าน้อย  
REPORT NO. : RN240611589  
SAMPLING SOURCE : WASTEWATER  
RECEIVED DATE : JUNE 28, 2024  
ANALYTICAL DATE : JUNE 28-JULY 08, 2024  
REPORT DATE : JULY 09, 2024

PARAMETER	UNIT	METHODS OF ANALYSIS	RESULT	MDL	STANDARD **
pH	-	Electrometric (SM: 4500-H <sup>+</sup> B.)	7.4 at 25°C	-	5-9
Biochemical Oxygen Demand	mg/l	Membrane Electrode (SM: 4500-O <sub>2</sub> G, 5210 B.)	16.0	-	≤20
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180 °C (SM: 2540 C.)	292.0	-	≤500
Suspended Solids	mg/l	Suspended Solids Dried at 103-105 °C (SM: 2540 D.)	1675.0	-	≤30
Settleable Solids	ml/l	Settleable Solids (SM: 2540 F.)	6.0	-	≤0.5
Sulfide as H <sub>2</sub> S	mg/l	Iodometric (SM: 4500-S <sup>2-</sup> F.)	2.3	-	≤1.0
Total Kjeldahl Nitrogen	mg/l	Macro Kjeldahl (SM: 4500-N <sub>org</sub> B)	5.0	-	≤35
Oil & Grease	mg/l	Liquid-Liquid Partition-Gravimetric (SM: 5520 B.)	N.D.	1.4	≤20
Total Coliform Bacteria	MPN/100 ml	MPN Test	1.4 x 10 <sup>4</sup>	-	-

SM : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

- Remark : 1. - Not available .  
2. \* mean analysis were performed by ห้องปฏิบัติการ ศูนย์สิ่งแวดล้อม มหาวิทยาลัยสวนดุสิต .  
3. \*\* กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก)  
4. N.D. (Not Detectable) หมายถึง ตรวจไม่พบ

(Nijinart Matiyapak)

Scientist

(Tawatchai Chongvutichai)

Environmental Laboratory Section Manager

\*\*\* Reported analysis refers to submitted sample only. Report analysis shall not be reproduced except in full, without written approval of Laboratory.\*\*\*

ANALYSIS REPORT

CUSTOMER NAME : The Panora Baan Amphur  
ADDRESS : ตำบลนาจอมเทียน อำเภอสัตหีบ จังหวัดชลบุรี  
SAMPLING LOCATION : น้ำประปา  
SAMPLING METHOD : GRAB  
SAMPLING CONDITION : NORMAL  
CHARACTERISTICS OF WATER : สี ไม่มีตะกอน  
SAMPLING DATE : JUNE 25, 2024  
SAMPLING TIME : 10:50  
SAMPLING BY : นายปริญญา กล้าน้อย

REPORT NO. : RN240611590  
SAMPLING SOURCE : WATER SUPPLY  
RECEIVED DATE : JUNE 25, 2024  
ANALYTICAL DATE : JUNE 25-JULY 08, 2024  
REPORT DATE : JULY 09, 2024

PARAMETER	UNIT	METHODS OF ANALYSIS	RESULT	MDL	STANDARD**
*Total Dissolved Solids	mg/L	Total Dissolved Solids Dried at 180 °C (SM: 2540 C.)	218.0	-	<1000

SM : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

Remark : 1. - Not available .

2. \* mean analysis were performed by ห้องปฏิบัติการ ศูนย์สิ่งแวดล้อม มหาวิทยาลัยสวนดุสิต .  
3. \*\* ค่ามาตรฐานเกณฑ์กำหนดคุณภาพน้ำประปาของการประปานครหลวง ประกาศ ณ วันที่ ๑๑ ตุลาคม พ.ศ. ๒๕๖๕

(Nijinart Matiyapak)

Scientist

(Tawatchai Chongvutichai)

Environmental Laboratory Section Manager

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เอกสารแนบ 5

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หนังสือรับรองห้องปฏิบัติการวิเคราะห์เอกชน



ที่ อก ๐๓๑๐(๑)/ ๑ ๐ ๔๓ ๑

กรมโรงงานอุตสาหกรรม  
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท  
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๐ ๔ พุทธศักราช ๒๕๖๔

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท โอกลา เทสต์ติ้ง แอนด์ คอนซัลติ้ง เซอร์วิส จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน  
ลงวันที่ ๑๒ กรกฎาคม ๒๕๖๔

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน  
บริษัท โอกลา เทสต์ติ้ง แอนด์ คอนซัลติ้ง เซอร์วิส จำกัด จำนวน ๑ แผ่น

ตามหนังสือที่อ้างถึง บริษัท โอกลา เทสต์ติ้ง แอนด์ คอนซัลติ้ง เซอร์วิส จำกัด ขอต่ออายุหนังสือ  
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๑๔ สถานที่ตั้งเลขที่ ๖๓/๑๓ ซอยเพชรเกษม ๗  
แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท โอกลา เทสต์ติ้ง แอนด์ คอนซัลติ้ง เซอร์วิส จำกัด  
ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์

- |                          |                            |
|--------------------------|----------------------------|
| ๑) นายธวัชชัย จงวุฒิชัย  | ทะเบียนเลขที่ ว-๒๑๔-ค-๕๑๒๔ |
| ๒) นางสาวปนัดดา พันธะกิจ | ทะเบียนเลขที่ ว-๒๑๔-ค-๖๖๙๙ |
| ๓) นางสาวจามจุรี คำปุย   | ทะเบียนเลขที่ ว-๒๑๔-ค-๙๖๖๓ |

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์

- |                                        |                            |
|----------------------------------------|----------------------------|
| ๑) นางสาวธัญชนก ชำขุน                  | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๑๖ |
| ๒) ว่าที่ร้อยตรีหญิงสาวตรี เวียงจันทร์ | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๑๓ |
| ๓) นางสาวภาณุชนารถ เชื้อวชาญ           | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๑๘ |
| ๔) นางสาววันวิสา หวังแวกลาง            | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๑๙ |
| ๕) นางสาวธิดารัตน์ กลัดตลาด            | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๒๐ |
| ๖) นางสาวรัตตชา ศรีปราสาท              | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๒๑ |
| ๗) นางสาวแพรวพรรณ กองกะแซง             | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๒๒ |
| ๘) นางสาวจุลชา สมบุญ                   | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๒๓ |
| ๙) นางสาวนิจินา มะติยาภักดิ์           | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๔๒๔ |
| ๑๐) นางสาวเบญจพร อินแก้ว               | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๖๖๔ |
| ๑๑) นายธนทัต เวชกิจ                    | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๖๖๕ |
| ๑๒) นายปริญญา กล้าน้อย                 | ทะเบียนเลขที่ ว-๒๑๔-จ-๙๖๖๖ |

ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย จำนวน ๙ รายการ และ  
อากาศเสีย จำนวน ๕ รายการ รวมทั้งสิ้น ๑๔ รายการ ตามสิ่งที่ส่งมาด้วย



หนังสือฉบับนี้จะหมดอายุในวันที่ ๑๕ สิงหาคม ๒๕๖๗ หากประสงค์จะต่ออายุหนังสือ  
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อ  
กรมโรงงานอุตสาหกรรมภายใน ๓๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน  
ซึ่งคำขอต่ออายุดังกล่าวขอรับได้ที่กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



(นางจินดา เตชะศรีรินทร์)

ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน  
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน  
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ  
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๔-๖  
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙  
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.gmail.go.th



เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท โอกลา เทสติ้ง แอนด์ คอนซัลติ้ง เซอร์วิส จำกัด

เลขทะเบียน ว-๒๑๙

ที่ อก ๐๓๑๐(๑)/ ๑๐๔๓ ๑

ลงวันที่ ๐๔ พฤศจิกายน ๒๕๖๔

ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๑๔ รายการ

น้ำเสีย จำนวน 9 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Biochemical Oxygen Demand	1) 5-Day BOD Test, Azide Modification Method <sup>[3]</sup> 2) 5-Day BOD Test, Membrane Electrode Method <sup>[3]</sup>
2	Free Chlorine	Iodometric Method <sup>[3]</sup>
3	Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method <sup>[3]</sup>
4	pH	Electrometric Method <sup>[3]</sup>
5	Sulfide	Iodometric Method <sup>[3]</sup>
6	Temperature	Laboratory and Field Methods <sup>[3]</sup>
7	Total Dissolved Solids	Dried at 180 °C <sup>[3]</sup>
8	Total Kjeldahl Nitrogen	Macro-Kjeldahl Method <sup>[3]</sup>
9	Total Suspended Solids	Dried at 103-105 °C <sup>[3]</sup>

อากาศเสีย (ปล่องระบาย) จำนวน 5 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Carbon Monoxide	Instrumental Analyzer <sup>[4]</sup>
2	Opacity	Ringelmann's Method <sup>[1,2]</sup>
3	Oxides of Nitrogen	Instrumental Analyzer <sup>[4]</sup>
4	Sulfur Dioxide	Instrumental Analyzer <sup>[4]</sup>
5	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method <sup>[4]</sup>

### เอกสารอ้างอิง

1. กระทรวงอุตสาหกรรม. ประกาศกระทรวงอุตสาหกรรม, พ.ศ. 2549. เรื่อง กำหนดค่าปริมาณ  
เขม่าควันที่เจือปนในอากาศที่ระบายออกจากปล่องของหม้อน้ำโรงสีข้าวที่ใช้แก๊สเป็นเชื้อเพลิง.

ราชกิจจานุเบกษา. 4 ธันวาคม 2549. เล่มที่ 123 ตอนพิเศษ 125 ง.

2. กระทรวงอุตสาหกรรม. ประกาศกระทรวงอุตสาหกรรม, พ.ศ. 2549. เรื่อง กำหนดค่าปริมาณ  
เขม่าควันที่เจือปนในอากาศที่ระบายออกจากปล่องของหม้อน้ำโรงงาน. ราชกิจจานุเบกษา. 4 ธันวาคม 2549.  
เล่มที่ 123 ตอนพิเศษ 125 ง.

3. APHA, AWWA, WEF. Standard Methods for the Examination of Water and  
Wastewater. 23<sup>rd</sup> ed. Washington, DC: APHA, 2017.

4. United States Environmental Protection Agency. Standards of Performance for  
New Stationary Sources. 40 CFR 60. Appendix A, 2018.

(นางริกาญจน์ ฉัตรสกุลวิไล)

ผู้อำนวยการกลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษ

และทะเบียนห้องปฏิบัติการ





ใบรับรองเลขที่ 21T033/1246

## ใบรับรองห้องปฏิบัติการ

อาศัยอำนาจตามความในพระราชบัญญัติการมาตรฐานแห่งชาติ พ.ศ. ๒๕๕๑

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม

ออกใบรับรองฉบับนี้ให้

มหาวิทยาลัยสวนดุสิต

ศูนย์สิ่งแวดล้อม

มีห้องปฏิบัติการตั้งอยู่เลขที่

๒๒๘-๒๒๘/๑-๓ ถนนสีรินธร แขวงบางพลัด เขตบางพลัด กรุงเทพมหานคร

ได้รับการรับรองความสามารถห้องปฏิบัติการทดสอบ

ตามมาตรฐานเลขที่ มอก. 17025-2561 (ISO/IEC 17025 : 2017)

ข้อกำหนดทั่วไปว่าด้วยความสามารถห้องปฏิบัติการทดสอบและสอบเทียบ

หมายเลขการรับรองที่ ทดสอบ ๐๒๘๐

โดยมีสาขาการรับรองตามรายละเอียดแนบท้ายใบรับรอง

ตั้งแต่ วันที่ ๘ มีนาคม พ.ศ. ๒๕๖๔

ถึง วันที่ ๗ มีนาคม พ.ศ. ๒๕๖๗

ออกให้ ณ วันที่ ๑๙ มี.ค. ๒๕๖๔

(นางกมลวรรณ จำเลิศวัฒน์)

รองเลขาธิการ ปฏิบัติราชการแทน

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



**รายละเอียดแนบท้ายใบรับรองห้องปฏิบัติการทดสอบ**  
**ใบรับรองเลขที่ 21T033/1246**

ชื่อห้องปฏิบัติการ      ห้องปฏิบัติการทดสอบ ศูนย์สิ่งแวดล้อม มหาวิทยาลัยสวนดุสิต  
ที่อยู่      เลขที่ 228-228/1-3 ถนนสีรินธร แขวงบางพลัด เขตบางพลัด กรุงเทพมหานคร  
หมายเลขการรับรองที่      ทดสอบ 0280  
สถานภาพห้องปฏิบัติการ      ☒ ถาวร      ☐ นอกสถานที่      ☐ชั่วคราว      ☐เคลื่อนที่

สาขาทดสอบ	รายการทดสอบ	วิธีทดสอบ
สาขาสิ่งแวดล้อม น้ำและน้ำเสีย (water and wastewater)	- pH 4.0 to 10.0  - Total solids (TS) 20 mg/l to 1 000 mg/l  - Total suspended solids (TSS) 20 mg/l to 1 000 mg/l  - Total dissolved solids (TDS) 20 mg/l to 1 000 mg/l  - Chemical oxygen demand (COD) 40 mg/l to 400 mg/l	- Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 <sup>rd</sup> Edition 2017, part 4500-H <sup>+</sup> B  - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 <sup>rd</sup> Edition 2017, part 2540 B  - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 <sup>rd</sup> Edition 2017, part 2540 D  - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 <sup>rd</sup> Edition 2017, part 2540 C  - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 <sup>rd</sup> Edition 2017, part 5220 C

ออกให้ ณ วันที่ **๑๙ มี.ค. ๒๕๖๔**

(นางกมลวรรณ นาสะวัฒน์)  
รองเลขาธิการ ปฏิบัติราชการแทน  
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



เอกสารแนบ 6

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เอกสารสอบเทียบเครื่องมือที่ใช้ในการวิเคราะห์



OKLA TESTING & CONSULTING SERVICE CO., LTD. (Head office)

บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## TSP Calibration Report

Location: OKLA-Testing Lab

Date: 01-03-2024

Sampler: EM-TSP-01

Serial No:

Barometric pressure, mm Hg (Pa): 759

Temperature, Deg C (Ta): 25

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.03475

Qstd Intercept: -0.02037

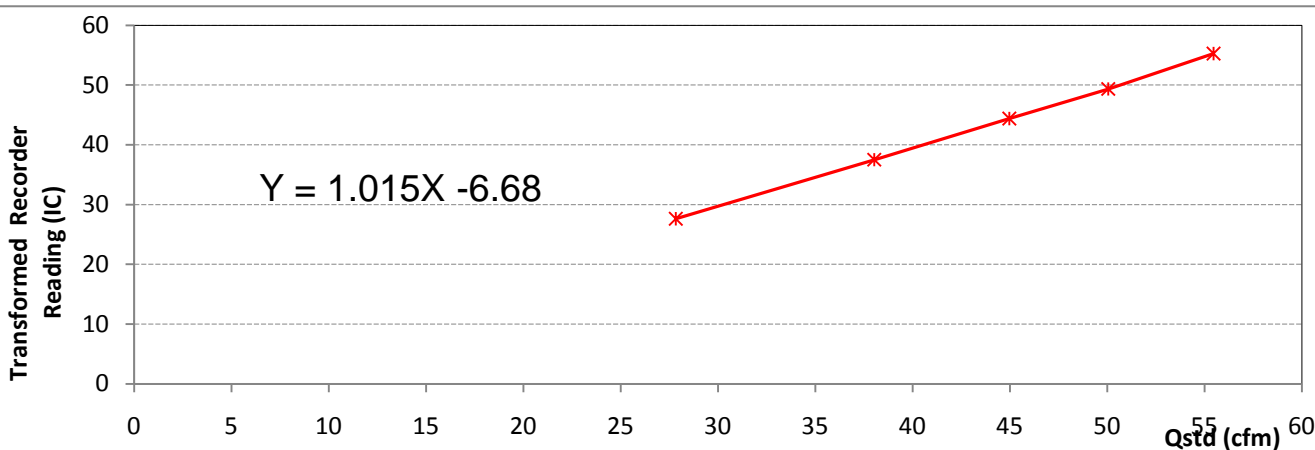
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	11.00	1.649	58.244	52.00	51.97
2	9.00	1.494	52.752	47.00	46.97
3	7.00	1.320	46.608	41.00	40.97
4	5.00	1.119	39.503	34.00	33.98
5	3.00	0.871	30.761	24.00	23.98

Linear Regression

Slope: 1.0150

Intecept: -6.6800

Corr. Coeff: 0.9990



CALIBRATION BY :	Parinya Klumnoi	DATE :	1/3/2024
APPROVED BY :	Tawatchai Chongvutichai	DATE :	1/3/2024
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			





OKLA TESTING & CONSULTING SERVICE CO., LTD. (Head office)

บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## TSP Calibration Report

Location: OKLA-Testing Lab

Date: 01-04-2024

Sampler: EM-TSP-01

Serial No:

Barometric pressure, mm Hg (Pa): 759

Temperature, Deg C (Ta): 25

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.03475

Qstd Intercept: -0.02037

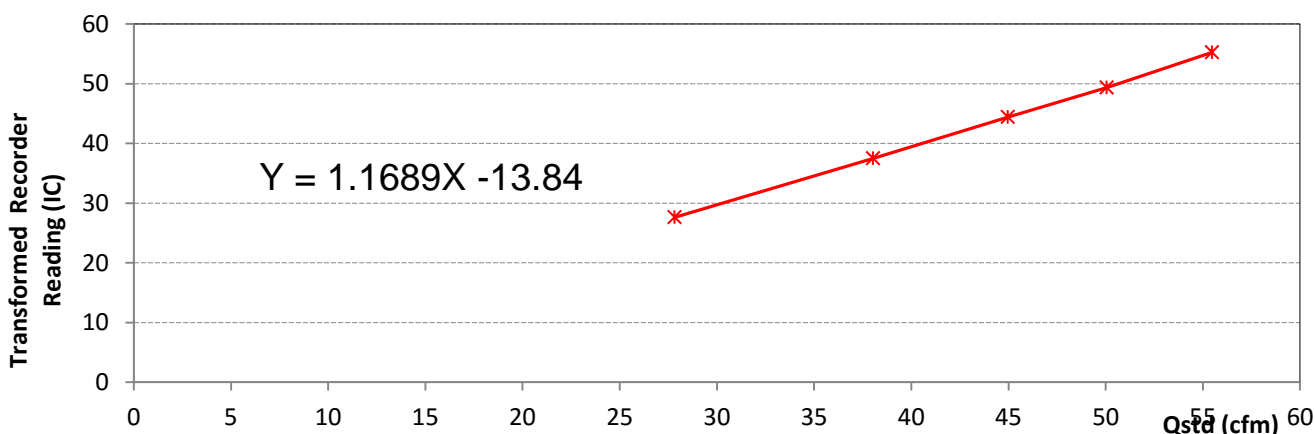
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	11.00	1.650	58.269	52.00	51.97
2	9.00	1.430	50.500	47.00	46.97
3	7.00	1.210	42.731	41.00	40.97
4	5.00	1.200	42.378	34.00	33.98
5	3.00	0.980	34.608	24.00	23.98

Linear Regression

Slope: 1.1689

Intecept: -13.8400

Corr. Coeff: 0.9557



CALIBRATION BY :	Parinya Klumnoi	DATE :	01-04-24
APPROVED BY :	Tawatchai Chongvutichai	DATE :	01-04-24
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			



OKLA TESTING & CONSULTING SERVICE CO., LTD. (Head office)

บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## TSP Calibration Report

Location: OKLA-Testing Lab

Date: 02-05-2024

Sampler: EM-TSP-01

Serial No:

Barometric pressure, mm Hg (Pa): 759

Temperature, Deg C (Ta): 25

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.03475

Qstd Intercept: -0.02037

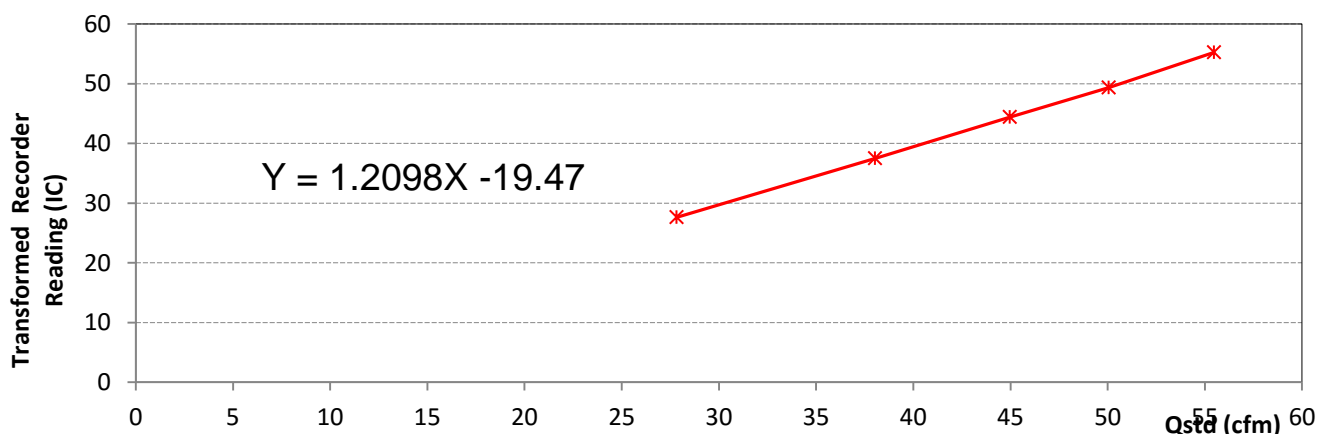
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	11.00	1.720	60.741	52.00	51.97
2	9.00	1.540	54.385	47.00	46.97
3	7.00	1.300	45.909	41.00	40.97
4	5.00	1.250	44.143	34.00	33.98
5	3.00	1.100	38.846	24.00	23.98

Linear Regression

Slope: 1.2098

Intecept: -19.4700

Corr. Coeff: 0.9566



CALIBRATION BY :	Parinya Klumnoi	DATE :	02-05-24
APPROVED BY :	Tawatchai Chongvutichai	DATE :	02-05-24
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			





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บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

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E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## TSP Calibration Report

Location: OKLA-Testing Lab

Date: 03-06-2024

Sampler: EM-TSP-01

Serial No:

Barometric pressure, mm Hg (Pa): 754

Temperature, Deg C (Ta): 29

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.03475

Qstd Intercept: -0.02037

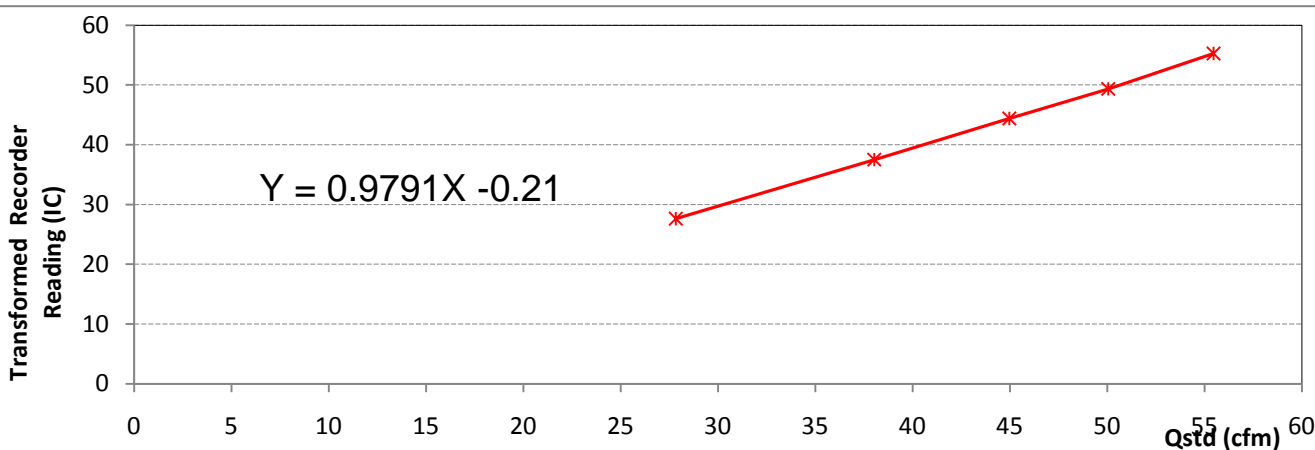
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	10.00	1.558	55.023	54.00	53.43
2	8.50	1.438	50.785	50.00	49.47
3	6.50	1.260	44.500	44.00	43.53
4	4.50	1.052	37.147	37.00	36.61
5	2.50	0.789	27.871	27.00	26.71

Linear Regression

Slope: 0.9791

Intecept: -0.2100

Corr. Coeff: 0.9995



CALIBRATION BY :	Parinya Klumnoi	DATE :	3/6/2024
APPROVED BY :	Tawatchai Chongvutichai	DATE :	3/6/2024
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			



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บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## PM10 Calibration Report

Location: OKLA-Testing Lab

Date: 01-03-2024

Sampler: EM-PM10-01

Serial No:

Barometric pressure, mm Hg (Pa): 759

Temperature, Deg C (Ta): 25

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.0337

Qstd Intercept: -0.02037

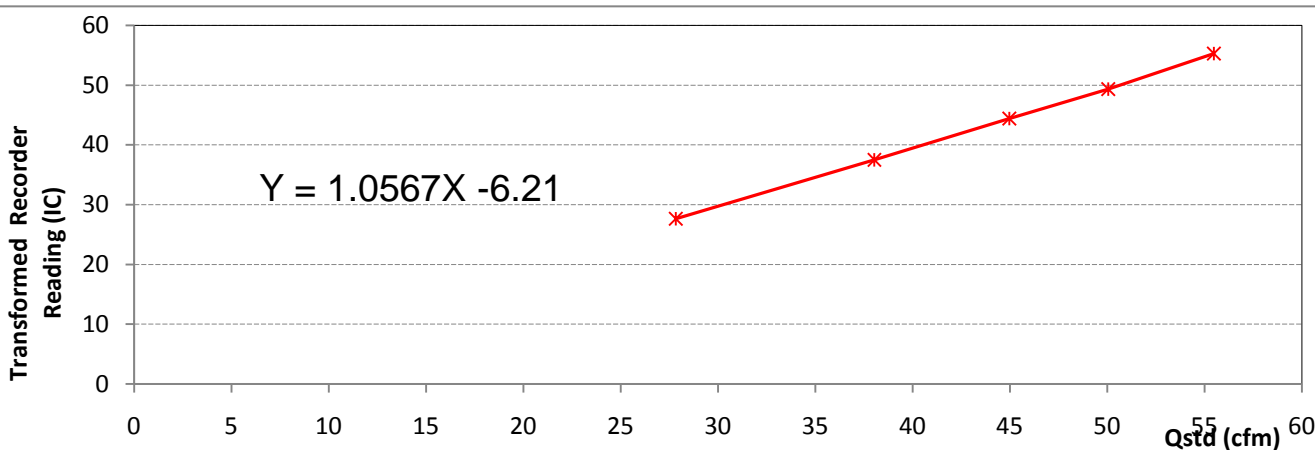
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	11.00	1.650	58.274	55.00	54.96
2	9.00	1.495	52.779	50.00	49.97
3	7.00	1.320	46.632	43.00	42.97
4	5.00	1.119	39.523	36.00	35.98
5	3.00	0.871	30.776	26.00	25.98

Linear Regression

Slope: 1.0567

Intecept: -6.2100

Corr. Coeff: 0.9994



CALIBRATION BY :	Parinya Klumnoi	DATE :	1/3/2024
APPROVED BY :	Tawatchai Chongvutichai	DATE :	1/3/2024
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			





OKLA TESTING & CONSULTING SERVICE CO., LTD. (Head office)

บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## PM10 Calibration Report

Location: OKLA-Testing Lab

Date: 01-04-2024

Sampler: EM-PM10-01

Serial No:

Barometric pressure, mm Hg (Pa): 759

Temperature, Deg C (Ta): 25

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.0337

Qstd Intercept: -0.02037

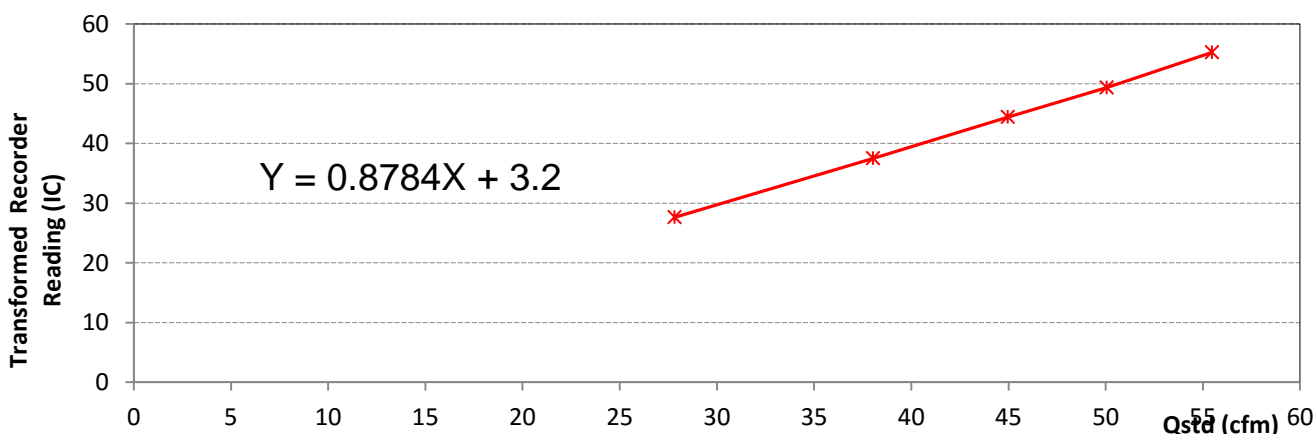
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	11.00	1.600	56.504	55.00	54.96
2	9.00	1.540	54.385	50.00	49.97
3	7.00	1.210	42.731	43.00	42.97
4	5.00	1.200	42.378	36.00	35.98
5	3.00	0.700	24.720	26.00	25.98

Linear Regression

Slope: 0.8784

Intecept: 3.2000

Corr. Coeff: 0.9696



CALIBRATION BY :	Parinya Klumnoi	DATE :	01-04-24
APPROVED BY :	Tawatchai Chongvutichai	DATE :	01-04-24
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			



OKLA TESTING & CONSULTING SERVICE CO., LTD. (Head office)

บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## PM10 Calibration Report

Location: OKLA-Testing Lab

Date: 02-05-2024

Sampler: EM-PM10-01

Serial No:

Barometric pressure, mm Hg (Pa): 759

Temperature, Deg C (Ta): 25

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.0337

Qstd Intercept: -0.02037

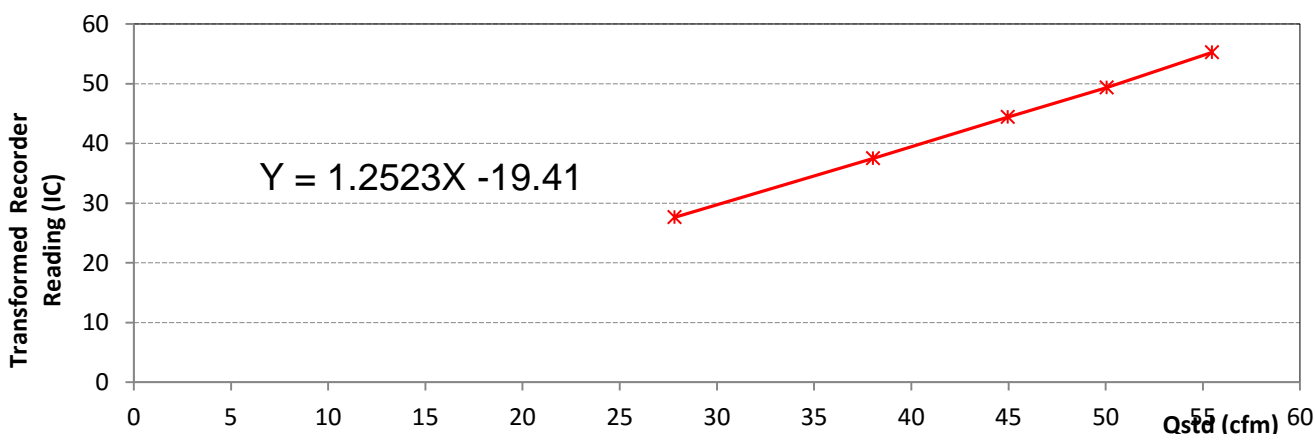
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	11.00	1.680	59.329	55.00	54.96
2	9.00	1.500	52.972	50.00	49.97
3	7.00	1.450	51.206	43.00	42.97
4	5.00	1.310	46.262	36.00	35.98
5	3.00	1.000	35.315	26.00	25.98

Linear Regression

Slope: 1.2523

Intecept: -19.4100

Corr. Coeff: 0.9806



CALIBRATION BY :	Parinya Klumnoi	DATE :	02-05-24
APPROVED BY :	Tawatchai Chongvutichai	DATE :	02-05-24
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			





OKLA TESTING & CONSULTING SERVICE CO., LTD. (Head office)

บริษัท โอคลา เทสติ้ง แอนด์ คอนซัลติง เซอร์วิส จำกัด (สำนักงานใหญ่)

67/35-36, 3<sup>rd</sup> Floor., Phetkasem 7/1 Rd., Wat Tha Pra, Bangkokyai, Bangkok, THAILAND 10600

Tel: (66) 02 868 1246

67/35-36 ชั้น 3 เพชรเกษม ซอย 7/1 แขวงวัดท่าพระ เขตบางกอกใหญ่ กรุงเทพฯ 10600

FAX: (66) 02 868 0860

E-MAIL: sales@okla-testing.com

Website: www.okla-testing.com

J-NAC Group

Tax ID: 0105553003058



## PM10 Calibration Report

Location: OKLA-Testing Lab

Date: 03-06-2024

Sampler: EM-PM10-01

Serial No:

Barometric pressure, mm Hg (Pa): 754

Temperature, Deg C (Ta): 29

Transfer Standard Type: Tisch TE 5025A

Serial No: 1758

Last Calibration Date: 3-Nov-23

Operator: Mr.Parinya

Qstd Slope: 2.0337

Qstd Intercept: -0.02037

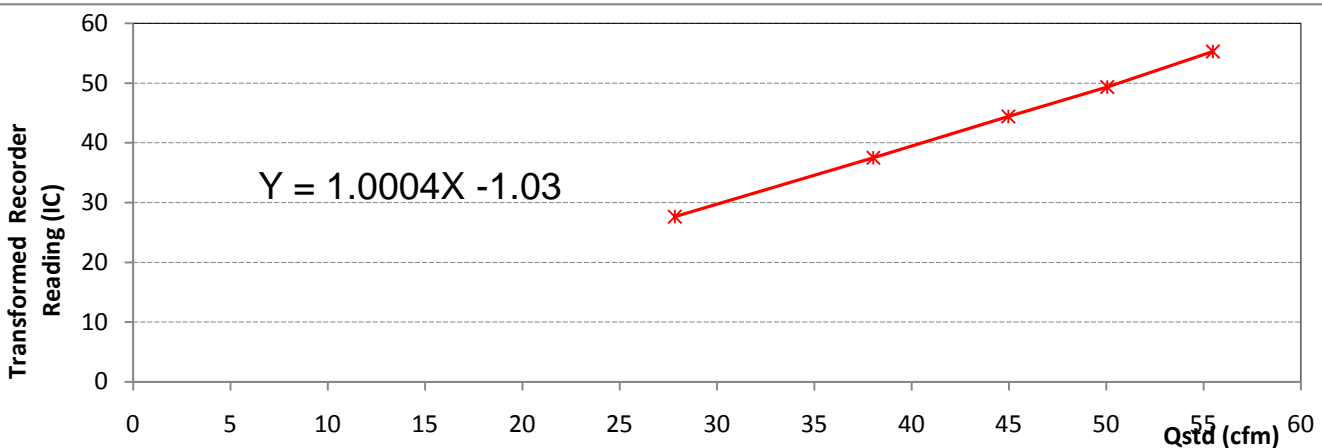
Plate No	H2O (in)	Qstd		I (Chart)	IC (corrected)
		(m3/min)	(cfm)		
1	9.80	1.543	54.505	54.00	53.43
2	8.00	1.396	49.315	49.00	48.48
3	6.50	1.261	44.523	44.00	43.53
4	4.20	1.017	35.930	35.00	34.63
5	2.10	0.725	25.617	25.00	24.74

Linear Regression

Slope: 1.0004

Intecept: -1.0300

Corr. Coeff: 0.9999



CALIBRATION BY :	Parinya Klumnoi	DATE :	3/6/2024
APPROVED BY :	Tawatchai Chongvutichai	DATE :	3/6/2024
ต้องการข้อมูลทางด้านเทคนิคเพิ่มเติม : นายปริญญา กล้าน้อย 02-8681246 ต่อ 22			
67/35-36,3rd Petkasem 7/1 Rd., Thapra, Bangkokyai, Bangkok 10600 Thailand Tel: (66) 0-28681246 Fax:(66) 0-2868-0860			



# QUALITY CALIBRATION CO.,LTD.

235 Petchkasem 63/2 Road, Laksong, Bangkae, Bangkok 10160  
Tel (662) 421-5402, (662) 444-0152-3, Fax (662) 809-4584

[www.qcalibration.com](http://www.qcalibration.com)

CERTIFICATE No : 24E1475  
REFERENCE No : 72222-2

PAGE : 1 OF 2

## Certificate of Calibration

EQUIPMENT : SOUND LEVEL METER  
MANUFACTURER : DELTAOHM  
MODEL : HD2010UC  
SERIAL No : 17030644674  
ID No : EM-SLM006  
SUBMITTED BY : OKLA TESTING & CONSULTING SERVICE CO.,LTD.  
67/35-36, 3 RD FLOOR., PHETKHEM 7/1 RD.,  
WAT THA PRA, BANGKOKYAI, BANGKOK,  
THAILAND 10600

CALIBRATED BY : CHAICHARN CH.

CALIBRATION DATE : 29-Feb-24

APPROVED BY :   
PONGSAK J.

ISSUED DATE : 29-Feb-24

RECEIVED DATE : 20-Feb-24

THIS CERTIFICATE MAY NOT BE REPRODUCED OTHER THAN IN FULL EXCEPT WITH THE PRIOR WRITTEN APPROVAL OF  
QUALITY CALIBRATION CO., LTD.

F-G010 REV 03



**QUALITY CALIBRATION CO.,LTD.**

235 Petchkasem 63/2 Road, Laksong, Bangkae, Bangkok 10160  
Tel (662) 421-5402, (662) 444-0152-3, Fax (662) 809-4584

[www.qcalibration.com](http://www.qcalibration.com)

CERTIFICATE No : 24E1475

PAGE : 2 OF 2

## Calibration Report

EQUIPMENT : SOUND LEVEL METER  
MANUFACTURER : DELTAOHM  
S/N : 17030644674  
RECEIVED DATE : 20-Feb-24  
AMBIENT TEMPERATURE : 23°C ± 3°C  
MODEL : HD2010UC  
ID No : EM-SLM006  
CALIBRATION DATE : 29-Feb-24  
RELATIVE HUMIDITY : 50 % RH ± 20% RH

### CONDITION OF THIS RESULTS OF CALIBRATION

1. THIS INSTRUMENT WAS CALIBRATED ACCORDING TO IEC 61672-2 :2003-04 AGAINST MULTIFUNCTION SOUND CALIBRATOR. THIS INSTRUMENT WAS PERFORMED SELF-CALIBRATION BY CALIBRATOR FROM CUSTOMER AT 114 Hz BEFORE CALIBRATION.
2. REFERENCE STANDARD INSTRUMENTS :-

<u>INSTRUMENT</u>	<u>MODEL</u>	<u>SERIAL No</u>	<u>CERTIFICATE No</u>	<u>DUE DATE</u>
1) MULTIFUNCTION SOUND CALIBRATOR	1986	02023	23E6274	06-Jul-24

3. THE CERTIFICATE IS VALID FOR THE ITEM CALIBRATED AS SHOWN ON THE DATE AND PLACE OF CALIBRATION ONLY.
4. THIS RESULT EXCLUDE LONG TERM STABILITY OF THE UNIT UNDER CALIBRATION.
5. THIS CERTIFICATE IS TRACEABLE TO :-  
- NATIONAL INSTITUTE OF METROLOGY (THAILAND) THROUGH THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR).

### RESULT OF CALIBRATION :- WITHOUT ADJUSTMENT

#### 1. A-WEIGHTING ACOUSTIC FREQUENCY RESPONSE

FREQUENCY (Hz)	STANDARD EXPECTED READING (dB)	UUC READING (dB)	CORRECTION (dB)	UNCERTAINTY OF MEASUREMENT (± dB)
125.00	-16.10	-15.8	-0.3	0.50
250.00	-8.60	-8.3	-0.3	0.50
500.00	-3.20	-3.0	-0.2	0.50
1000.00	0.00	0.0	0.0	0.50
2000.00	1.20	0.8	0.4	0.50

#### 2. C-WEIGHTING ACOUSTIC FREQUENCY RESPONSE

FREQUENCY (Hz)	STANDARD EXPECTED READING (dB)	UUC READING (dB)	CORRECTION (dB)	UNCERTAINTY OF MEASUREMENT (± dB)
125.00	-0.20	0.0	-0.2	0.50
250.00	0.00	0.1	-0.1	0.50
500.00	0.00	0.0	0.0	0.50
1000.00	0.00	0.0	0.0	0.50
2000.00	-0.20	-0.5	0.3	0.50

#### 3. SOUND LEVEL LINEARITY TEST AT 1000 Hz

STANDARD APPLIED (dB)	UUC READING (dB)	CORRECTION (dB)	UNCERTAINTY OF MEASUREMENT (± dB)
74	73.9	0.1	0.50
84	84.0	0.0	0.50
94	94.0	0.0	0.50
104	104.0	0.0	0.50
114	114.0	0.0	0.50

UUC\* : UNIT UNDER CALIBRATION

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON A STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR  $k=2$ , PROVIDING A LEVEL OF CONFIDENCE APPROXIMATELY 95%.

END OF CALIBRATION REPORT



## CERTIFICATE OF CALIBRATION

### FOR

NOMENCLATURE : VIBRATION METER  
MANUFACTURER : VIBROCK  
MODEL / TYPE : V9000  
SERIAL NO. : 2341  
CLID. NO. : 252200818  
JOB CONTROL NO. : 240305023239  
CALIBRATION SERVICE : ☒ IN-LABORATORY ☐ ON-SITE

CUSTOMER : OKLA TESTING & CONSULTING SERVICE CO., LTD.  
67/35-36, 3RD FLOOR, PHETKASEM 7/1 RD.,  
WATTHAPRA, BANGKOKYAI, BANGKOK 10600 THAILAND

DATE OF RECEIVED : 05 March 2024

DATE OF ISSUED : 08 March 2024

The report of calibration shall not be reproduced except in full without approval of the Calibration Laboratory Co., Ltd.

Calibrated By :

Suwit Phuanbusabong  
Calibration Engineer



Approved By :

Mongkol Yotsoontorn  
Authorized Signatory  
08 March 2024



This Calibration Certificate documents the traceability to national standards, which realize the units of measurement according to the  
International System of Units (SI)

Certificate No. Q24023239

F3-011-05/12-23

page 1 of 3



@clccalibration



## REPORT OF CALIBRATION FOR

NOMENCLATURE	:	VIBRATION METER
MANUFACTURER	:	VIBROCK
MODEL / TYPE	:	V9000
SERIAL NO.	:	2341
DATE OF CALIBRATION	:	06 March 2024

### ENVIRONMENT CONDITIONS :

Temperature :  $(23 \pm 2) ^\circ\text{C}$

Relative Humidity :  $(55 \pm 15) \% \text{RH}$

### PROCEDURE USED :

This instrument was calibrated under procedure No. **CLC-CPEE-08** based on **ISO 16063-21** as calibration guideline.

The calibration was performed by using Digital Multimeter, Programmable Timer/Counter and Accelerometer with Conditioning Amplifier which maintained by the Calibration Laboratory Co., Ltd.

### REFERENCE STANDARD USED :

1. Digital Multimeter, Hewlett Packard Model 34401A S/N. 3146A75935.
2. Programmable Timer/Counter, Philips Model PM6680B S/N. SM607101.
3. Accelerometer with Measuring Amplifier, Bruel & Kjaer Model 8305, 2626 S/N. 705491, 1741406.

### TRACEABILITY :

1. The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand) Certificate No. EE-0130-23, Due Date 29 November 2024.
2. The measurements are traceable to International System of Units (SI), through Aeronautical Radio of Thailand Ltd. Certificate No. 07-0043/23, Due Date 12 April 2024.
3. The measurements are traceable to International System of Units (SI), through National Institute of Metrology (Thailand) Certificate No. AV-0053-23, Due Date 12 October 2024.

### UNCERTAINTY :

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k = 2,00$  which for a normal distribution corresponds to a coverage probability of approximately 95 %. It has been evaluated according to the "Evaluation of the Uncertainty of Measurement in Calibration (EA-4/02 M:2022)"

Certificate No. Q24023239

F3-011-05/12-23

page 2 of 3



@clccalibration



**CLC**  
Accredited  
ISO/IEC 17025

# CALIBRATION LABORATORY Co., LTD.

2/10-11,14, 55 Soi Prasert Manukit 29 Yaek 4, Prasert Manukit Rd., Ladphrao, Bangkok 10230  
Tel. 02-578-0353-4 Fax: 02-578-2672 www.cal-laboratory.com E-mail:sale@cal-laboratory.com



**CONDITION OF CALIBRATION ITEM : RECEIVED IN GOOD OPERATIONAL CONDITION**

**MEASUREMENT RESULTS : ( X ) without adjustment ( ) adjustment**

## CALIBRATION DATA

### VELOCITY RESULT

Test point		Mode	STD Reading	DUC Reading	Correction	Uncertainty
( mm/s )	( frequency )		( mm/s )	( mm/s )	( mm/s )	± ( % of rdg. )
10	160 Hz	peak	10.00	9.83	+0.17	1.1
20	160 Hz		20.00	19.11	+0.89	0.9
40	160 Hz		40.00	38.71	+1.29	0.9
60	160 Hz		60.00	57.81	+2.19	0.9
80	160 Hz		80.00	76.23	+3.77	0.9
100	160 Hz		100.00	94.98	+5.02	0.9

Note. The Scope of Accredited ANAB Certificate No. ACDM-2814 Version 012 Page 2 of 67

**This report is valid for the above stated instrument/s only.**

**### End of Certificate ###**

Certificate No. Q24023239

F3-011-05/12-23

page 3 of 3



@clccalibration



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES  
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250  
TEL. 0-2717-3000-29 FAX. 0-2719-9484



Cert.No.: 23CH333

Page.: 1 of 3

## Certificate of Calibration

Equipment : pH Meter  
Manufacturer : Schott  
Model : CG 842  
Serial No. : 99231069/0046  
ID No. : ENV-W0003/44  
Condition As-Received: Used Item  
Received Date : 10 March 2023  
Calibration Date : 13 March 2023  
Reference : 2303-0385DN-1  
Submitted by : The Environmental Center Suandusit University  
228-228/1-3 Sirinthorn Rd., Bangplad,  
Bangplad, Bangkok 10700  
Ambient Temperature : (25 ± 2.5) °C  
Relative Humidity : (50 ± 15) %  
Calibration Procedure : In - house method :  
- CP-CH5 by direct measurement with standard  
voltage calibrator and direct measurement with  
certified reference material (CRM)  
- CP-CH8 by comparison with standard thermometer

Calibrated by : Warakorn Lerngagtrakul

Approved by :

Approved Signatory

- ( ☒ ) Malee Butkruea  
( ☐ ) Salthip Meangmai  
( ☐ ) Warakorn Lerngagtrakul

Issue Date : 16 March 2023

**The Uncertainties are for a confidence probability of approximately 95%**

This certificate may not be reproduced other than in full, except with the prior written  
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.





Cert.No.: 23CH333

Page.: 2 of 3

**Condition of this calibration result****1. Reference Standard Instrument :-**

<u>Instrument</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Cert. No.</u>	<u>Due Date</u>
1) Document Process Calibrator	54030049	130RC116	22E2769	24 Aug 2023
2) Ref. Standard Thermometer	4982054	110RC044	22I1306	27 Oct 2023

This certification is traceable to the International System of Unit maintained at:-

- Traceable to National Institute of Metrology (Thailand), NIMT

**2. Certified Reference Materials** : The measurement results are traceable to SI through CPA chem Ltd.,  
ANSI-ASQ National Accreditation Board, Accredited No. AR-1835

<u>Buffer Solution</u>	<u>Manufacturer</u>	<u>Lot No.</u>	<u>Exp. date</u>
pH 4.008	CPA chem	863832	28 Dec 2024
pH 6.865	CPA chem	788996	01 Jan 2024
pH 9.181	CPA chem	863834	28 Dec 2023

**3. This certificate is valid only to the item calibrated on date and place of calibration.**

**Calibration Results****Function : mV Measurement****Performing standard curve by Fluke at pH (4,7)(7,10)**

Unit Under Calibration	Nominal Value	Standard Voltage Input	Actual Reading		Uncertainty of Measurement ( $\pm$ mV)	Coverage factor k
	pH	mV	mV	pH		
pH Meter S/N.:99231069/0046	4.000	177.48	177.0	4.000	0.058	2.00
	6.860	8.28	7.8	6.861	0.058	2.00
	7.000	0.00	-0.4	7.000	0.058	2.00
	7.000	0.00	0.3	7.000	0.058	2.00
	9.180	-128.97	-128.4	9.179	0.058	2.00
	10.000	-177.48	-176.9	10.000	0.058	2.00



Cert.No.: 23CH333

Page.: 3 of 3

Calibration ResultsFunction : pH Measurement

Performing three buffers standard curve by using buffer nominal pH (4,7)(7,9)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH measurement ( $\pm$ )	Coverage factor k
pH Electrode S/N.: A111820001	4.008	4.009	185.9	0.0052	2.06
	6.865	6.863	19.1	0.0060	2.07
	6.865	6.870	19.4	0.0058	2.05
	9.181	9.182	-108.4	0.0070	2.05

Function : Temperature Measurement

( \* ) Without adjustment

This equipment was connected with Temperature Probe;

- Model : BlueLine 14pH  
- Serial No. : A111820001

Dimension of probe;

- Length : 120 mm.  
- Diameter : 12 mm.  
- Immersion Depth : 100 mm.

Calibration Point (°C)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty of measurement ( $\pm$ °C)	Coverage factor k
23.0	23.003	23.1	0.097	0.13	2.00
25.0	25.002	25.2	0.198	0.13	2.00
27.0	27.002	27.2	0.198	0.13	2.00

Remark : - UUC\* = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95 %.

-o0o-



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www.qcalibration.com



CERTIFICATE No : 23T7017

REFERENCE No : 69934-1

PAGE : 1 OF 2

## Certificate of Calibration

EQUIPMENT : HOT AIR OVEN

MANUFACTURER : MEMMERT

MODEL : UN160

SERIAL No : B519.0144

ID No : ENV-W0084/64

CONDITION AS RECEIVED : USED ITEM

SUBMITTED BY : THE ENVIRONMENTAL CENTER, SUAN DUSIT UNIVERSITY  
228-228/1-3 SIRINTHORN RD., BANGPLAD,  
BANGKOK 10700, THAILAND

CALIBRATED BY : CHAICHARN CH.

CALIBRATION DATE : 19-Jul-23

APPROVED BY :



ISSUED DATE : 21-Jul-23

RECEIVED DATE : 19-Jul-23





# QUALITY CALIBRATION CO.,LTD.

235 Petchkasem 63/2 Road, Laksong, Bangkok, Bangkok 10160

Tel (662) 421-5402, (662) 444-0152-3, Fax (662) 809-4584

CERTIFICATE No : 23T7017

PAGE : 2 OF 2

## Calibration Report

EQUIPMENT : HOT AIR OVEN  
MANUFACTURER : MEMMERT  
MODEL : UN160  
ID No : ENV-W0084/64  
RECEIVED DATE : 19-Jul-23  
AMBIENT TEMPERATURE : 26 °C ± 1 °C  
S/N : B519.0144  
CALIBRATION DATE : 19-Jul-23  
RELATIVE HUMIDITY : 50 %RH ± 10 %RH

### CONDITION OF THIS RESULTS OF CALIBRATION

1. THIS INSTRUMENT WAS CALIBRATED ACCORDING TO TLAS G-20 BY COMPARISON WITH CALIBRATED THERMOCOUPLE TYPE K UNDER NO LOAD CONDITION. THE THERMOCOUPLES WERE PLACED ON NINE POINTS AND LOCATED ONE THERMOCOUPLE IN EACH OF THE EIGHT CORNERS OF THE CHAMBER AND WAS AWAY FROM THE EACH WALL OF 5 cm TO 10 cm. AND PLACED THE NINTH THERMOCOUPLE WITHIN 2.5 cm. OF THE GEOMETRIC CENTER OF THE CHAMBER. THE UNIFORMITY WAS MEASURED BETWEEN REFERENCE PROBE AND OTHER PROBES AT THE SAME TIME.
2. REFERENCE STANDARD INSTRUMENTS :-

#### INSTRUMENT

#### MODEL

#### SERIAL No

#### CERTIFICATE No

#### DUE DATE

1) DATA LOGGER WITH TC TYPE K

HYDRA 2635A

8009008

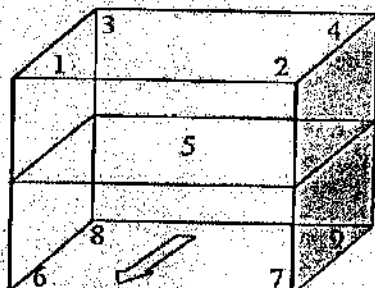
22T7511

10-Aug-23

3. THE CERTIFICATE IS VALID FOR THE ITEM CALIBRATED AS SHOWN ON THE DATE AND PLACE OF CALIBRATION ONLY.
4. THIS RESULT EXCLUDE LONG TERM STABILITY OF THE UNIT UNDER CALIBRATION.
5. THIS CERTIFICATE IS TRACEABLE TO THE INTERNATIONAL SYSTEM OF UNIT MAINTAINED AT:-

- NATIONAL INSTITUTE OF METROLOGY (THAILAND) THROUGH QUALITY CALIBRATION CO.,LTD.

### RESULT OF CALIBRATION :- WITHOUT ADJUSTMENT



FRONT

#### GENERAL INFORMATION

Overall Ambient Temperature around the Chamber (°C) variation : 1

Overall Line Voltage (V) variation : 2

Instrument Condition : Normal

Chamber Size (W\*L\*H): 56\*40\*72 cm

#### CHAMBER PERFORMANCE

Controller Temperature (°C)	Indicating Temperature (°C)	Temperature Stability (±°C)	Temperature Uniformity (°C)	Overall Variation (°C)
104.0	104.0	0.49	0.96	1.33
110.0	110.0	0.61	1.07	1.66
182.0	182.0	0.51	0.98	1.93

#### TEMPERATURE MEASUREMENT ACCURACY TEST

Controller Temp (°C)	Indicating Temp (°C)	Measured Temperature (°C) at Spread Locations									Uncertainty (±°C)
		#1	#2	#3	#4	Ref. 5	#6	#7	#8	#9	
104.0	104.0	103.83	103.88	103.91	103.77	104.12	104.15	104.04	104.20	104.36	0.82
110.0	110.0	109.70	109.67	109.73	109.68	110.14	110.42	110.28	110.44	110.49	0.97
182.0	182.0	179.47	179.59	179.67	179.50	180.37	180.82	180.65	180.85	180.92	1.1

NOTE 1 : THE UNCERTAINTY OF MEASUREMENT EXCLUDED TEMPERATURE UNIFORMITY OF THE CHAMBER.

NOTE 2 : LOCATION 5 WAS REFERENCE LOCATION.

NOTE 3 : THIS CALIBRATION WAS CARRIED OUT AT THE CUSTOMER'S PLACE AT LABORATORY AREA.

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON A STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR k =2, PROVIDING A LEVEL OF CONFIDENCE APPROXIMATELY 95%.

END OF CALIBRATION REPORT



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES  
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250  
TEL. 0-2717-3000-27 FAX. 0-2719-9484



Cert.No.: 23MM124

Page.: 1 of 3

## Certificate of Calibration

**Equipment :** Electronic Balance

**Manufacturer :** Shimadzu

**Model :** AUX220

**Serial No. :** D449516312

**ID No. :** ENV-W0078/54

**Submitted by :** The Environmental Center Suandusit University  
228-228/1-3 Sirinthorn Rd.,  
Bangplad, Bangplad,  
Bangkok 10700

**Location :** Scientists for Electronic Balance Room 2


**Received order :** 11 January 2023

**Calibration Date :** 11 January 2023

**Ambient Temperature :** 15 °C to 40 °C

**Relative Humidity :** 30 % to 90 %

**Calibrated by :** Suwit Imjai

**Approved by :**   
Approved Signatory

( / ) Ponthippa Tameyakul  
( / ) Malee Butkruea

**Issue Date :** 16 January 2023

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written  
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0049257



หนังสือขอขยายระยะเวลาในการเสนอรายงานผลการปฏิบัติ  
ตามมาตรการที่กำหนดไว้ในรายงานการประเมินผลกระทบ  
สิ่งแวดล้อม โครงการ เดอะ พาโนรา บ้านอำเภอ  
(The Panora Baan-Amphur) (ระยะก่อสร้าง)  
ช่วงเดือนมกราคม - มิถุนายน พ.ศ. 2567

เทศบาลตำบลนาจอมเทียน	
เลขที่รับ	๓๓๖๓
วันที่	๒๖ ก.ค. ๒๕๖๗
<input type="checkbox"/> สำนักปลัด <input type="checkbox"/> กองช่าง <input type="checkbox"/> กองการศึกษาศึกษา <input type="checkbox"/> กองการเจ้าหน้าที่ <input type="checkbox"/> กองยุทธศาสตร์	<input type="checkbox"/> กองคลัง <input type="checkbox"/> กองการศึกษาศึกษา <input type="checkbox"/> กองสวัสดิการสังคม <input type="checkbox"/> กองยุทธศาสตร์

บริษัท ไมด้า แอสเซ็ท จำกัด (มหาชน)  
 267 ถนนจรัญสนิทวงศ์ แขวง บางอ้อ เขตบางพลี  
 กรุงเทพมหานคร โทรศัพท์ 02-4342390

ที่ 2567 / 0701

10 กรกฎาคม พ.ศ. 2567

เรื่อง ขอยยาระยะเวลาในการเสนอรายงานผลการปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อม โครงการ เดอะ พาโนรา บ้านอำเภอ (The Panora Baan-Amphur) (ระยะก่อสร้าง) ช่วงเดือนมกราคม - มิถุนายน พ.ศ. 2567

เรียน นายกเทศมนตรีตำบลนาจอมเทียน

อ้างถึง สำเนาหนังสือสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม ที่ ทส.1010.5/7825 ลงวันที่ 2 มิถุนายน พ.ศ. 2564

- สิ่งที่ส่งมาด้วย 1. หนังสือสำเนาหนังสือสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม ที่ ทส.1010.5/7825 ลงวันที่ 2 มิถุนายน พ.ศ. 2564
2. หนังสือรับรองบริษัท ไมด้า แอสเซ็ท จำกัด (มหาชน)

ตามหนังสือที่อ้างถึง โครงการ เดอะ พาโนรา บ้านอำเภอ (The Panora Baan-Amphur) ตั้งอยู่ที่ ตำบลนาจอมเทียน อำเภอสัตหีบ จังหวัดชลบุรี ได้รับความเห็นชอบรายงานการประเมินผลกระทบสิ่งแวดล้อม โดยมีเงื่อนไขให้เจ้าของโครงการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อมอย่างเคร่งครัด และให้จัดทำรายงานผลการปฏิบัติตามมาตรการฯ ระยะก่อสร้าง เสนอต่อนายกเทศมนตรีตำบลนาจอมเทียน นอกจากนี้ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง หลักเกณฑ์ และวิธีการจัดทำรายงานผลการปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมซึ่งผู้ดำเนินการ หรือผู้ขออนุญาตจะต้องจัดทำเมื่อได้รับอนุญาตให้ดำเนินโครงการหรือกิจการแล้ว พ.ศ. 2561 ข้อ 3 (5) กำหนดว่า ในกรณีไม่สามารถเสนอรายงานผลการปฏิบัติตามมาตรการได้ภายในระยะเวลากำหนดไว้ ให้มีหนังสือแจ้งหน่วยงานอนุญาตภายในวันสุดท้ายของรอบที่ครบกำหนดเสนอรายงานแต่ละครั้ง พร้อมกับให้ระบุเหตุผลผลความจำเป็นที่ไม่สามารถเสนอรายงานได้ภายในกำหนดซึ่งเป็นปัญหาหรืออุปสรรคที่เกิดจากการจัดทำรายงาน โดยให้ขยายระยะเวลาในการเสนอรายงานได้เป็นระยะเวลา 30 วัน นับแต่วันที่หน่วยงานของรัฐได้ประทับตราลงรับหนังสือไว้ถูกต้องครบถ้วนแล้ว

บริษัท.....



บริษัท ไมค์ แอสเซท จำกัด (มหาชน) ในฐานะผู้รับผิดชอบโครงการ The Panora Estuaria (ชื่อเดิม โครงการ เดอะ พาโนรา บ้านอำเภอ (The Panora Baan-Amphur)) ไม่สามารถเสนอรายงานดังกล่าวได้ ภายในระยะเวลากำหนดไว้ เนื่องจากอยู่ในระหว่างการจัดทำเล่มรายงานผลการปฏิบัติตามมาตรการป้องกัน และแก้ไขผลกระทบสิ่งแวดล้อม จึงขอขยายระยะเวลาในการเสนอรายงานของโครงการ The Panora Estuaria (ชื่อเดิม โครงการ เดอะ พาโนรา บ้านอำเภอ (The Panora Baan-Amphur)) และจะดำเนินการให้แล้วเสร็จ พร้อมส่งโดยเร็วที่สุดภายในระยะเวลาที่กฎหมายกำหนด

จึงเรียนมาเพื่อโปรดพิจารณา

ขอแสดงความนับถือ



(นายวิสูตร เอียวศิริกุล และนายสรศักดิ์ เอียวศิริกุล)

กรรมการผู้มีอำนาจลงนาม

บริษัท ไมค์ แอสเซท จำกัด (มหาชน)