

## ภาคผนวก ค

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ใบรับรองผลการตรวจวิเคราะห์

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ผลการตรวจวิเคราะห์  
คุณภาพอากาศในบรรยากาศโดยทั่วไป

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

**Lot ID: 24118857**  
Date Received : Oct 24, 2024  
Date Reported : Oct 29, 2024  
Report Number: 3139828-1

Page 1 of 1

Sample Description	Air Quality							
Location	บริเวณพื้นที่โครงการ (GPS 47P 0672452, 1560111)							
Parameter	Sulfur Dioxide (ppm)							
Measurement Date	Oct 22, 2024 - Oct 23, 2024							
Measurement by	Thanesuan Sriwasut							
Time	24118857-1	-	-	-	-	-	-	-
	Oct 22, 2024							
10:00 AM - 11:00 AM	0.0020	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0061	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0047	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0038	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0035	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0032	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0024	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0023	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0024	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0026	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0025	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0024	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0022	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0022	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0025	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0022	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0024	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0024	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0022	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0022	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0023	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0024	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0022	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0026	-	-	-	-	-	-	-
Average	0.0027	-	-	-	-	-	-	-
1hr - Maximum	0.0061	-	-	-	-	-	-	-
Standard 1hr - Average	0.3	-	-	-	-	-	-	-
Standard 24 hrs - Average	0.12	-	-	-	-	-	-	-

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

**Lot ID: 24118858**  
Date Received : Oct 24, 2024  
Date Reported : Oct 30, 2024  
Report Number : 3139831-1

Page 1 of 1

Sample Number	24118858-1							
Sampled Date	Oct 22, 2024							
Sample Description	Air Quality							
Location	บริเวณพื้นที่โครงการ (GPS 47P 0672452, 1560111)							
Date Analysis Commenced	Oct 25, 2024							
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag							
Barometric Pressure	759 mmHg							
Atmospheric Temperature	30.8 °C							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
<b>Air Testing</b>								
Particulate matter as PM 10	22/10/24 - 23/10/24	mg/m3	*	0.005	0.022	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok
Total Suspended Particulate	22/10/24 - 23/10/24	mg/m3	*	0.005	0.042	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok

### Guideline :

NEB No.24 : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Thanesuan Sriwasut

### Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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TESTING  
No.0009

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)



## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

**Lot ID: 24118886**  
Date Received : Oct 24, 2024  
Date Reported : Oct 29, 2024  
Report Number: 3139840-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เชิงโครงการ (GPS 47P 0672444,1560154)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Oct 22, 2024 - Oct 23, 2024  
**Measurement by** Thanesuan Sriwasut

Time	24118886-1 Oct 22, 2024	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0085	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0077	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0060	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0051	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0053	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0044	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0049	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0046	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0042	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0034	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0032	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0036	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0064	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0059	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0033	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0020	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0022	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0019	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0013	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0032	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0073	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0085	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0104	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.0087	-	-	-	-	-	-
Average	0.0051	-	-	-	-	-	-
1hr - Maximum	0.0104	-	-	-	-	-	-
Standard 1hr - Average	0.170	-	-	-	-	-	-

**Standard** : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
**Reference Method** : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

**Lot ID: 24118887**  
Date Received : Oct 24, 2024  
Date Reported : Oct 29, 2024  
Report Number: 3139844-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เชิงโครงการ (GPS 47P 0672444,1560154)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Oct 22, 2024 - Oct 23, 2024  
**Measurement by** Thanesuan Sriwasut

Time	24118887-1 Oct 22, 2024	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0011	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0011	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0015	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0017	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0016	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0012	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0013	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0014	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0012	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0012	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0013	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0012	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0016	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0019	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0017	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0009	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0010	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0010	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0011	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0010	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0010	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0019	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0029	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.0015	-	-	-	-	-	-
Average	0.0014	-	-	-	-	-	-
1hr - Maximum	0.0029	-	-	-	-	-	-
Standard 1hr - Average	0.3	-	-	-	-	-	-
Standard 24 hrs - Average	0.12	-	-	-	-	-	-

**Standard** : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
**Reference Method** : US EPA Method Part 53 and 58

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

TESTING  
No.0009

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :

Lot ID: 2478374  
Date Received : Oct 24, 2024  
Date Reported : Oct 30, 2024  
Report Number : 3049706-1

Page 1 of 1

Sample Number 2478374-1  
Sampled Date Oct 22, 2024  
Sample Description Air Quality  
Location บริเวณด้านทิศใต้ของอาคาร (GPS 47P 0672434, 1560193)  
Date Analysis Commenced Oct 25, 2024  
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
Barometric Pressure 759 mmHg  
Atmospheric Temperature 30.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/10/24 - 23/10/24	mg/m3	-	0.005	0.023	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	22/10/24 - 23/10/24	mg/m3	-	0.005	0.042	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Thanesuan Sriwasut

### Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

*Orawan R.*

Orawan Rak Yong  
Scientist (3)

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## ผลการตรวจวัดระดับเสียง

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Lot ID: 24118900

Date Received : Oct 24, 2024

Date Reported : Oct 29, 2024

Report Number: 3149933-1

Page 1 of 1

Sample Number	24118900-1
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0672434, 1560112)
Measurement Date	Oct 21 - Oct 22, 2024
Measurement by	Thanesuan Sriwasut
Sound Level meter	Serial No. 572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	52.2	72.5	48.4
09:00 AM - 10:00 AM	51.2	72.6	46.5
10:00 AM - 11:00 AM	50.6	72.3	46.4
11:00 AM - 12:00 PM	51.2	67.9	47.2
12:00 PM - 01:00 PM	50.1	65.2	45.6
01:00 PM - 02:00 PM	50.2	76.4	45.5
02:00 PM - 03:00 PM	51.2	74.5	45.7
03:00 PM - 04:00 PM	50.1	71.7	45.3
04:00 PM - 05:00 PM	51.2	80.3	47.8
05:00 PM - 06:00 PM	51.8	75.3	48.7
06:00 PM - 07:00 PM	55.1	77.4	50.8
07:00 PM - 08:00 PM	55.4	78.1	51.5
08:00 PM - 09:00 PM	55.3	77.3	52.5
09:00 PM - 10:00 PM	56.2	85.3	51.0
10:00 PM - 11:00 PM	52.9	70.5	50.9
11:00 PM - 12:00 AM	53.4	74.4	50.1
12:00 AM - 01:00 AM	51.4	62.2	49.3
01:00 AM - 02:00 AM	50.5	62.3	48.2
02:00 AM - 03:00 AM	53.0	73.8	47.4
03:00 AM - 04:00 AM	50.0	63.5	47.1
04:00 AM - 05:00 AM	68.2	97.1	62.6
05:00 AM - 06:00 AM	58.2	85.9	50.1
06:00 AM - 07:00 AM	54.5	73.6	50.3
07:00 AM - 08:00 AM	54.2	76.6	50.6

Leq Average 24 hrs. (dB(A))

56.8

Lmax (dB(A))

97.1

L90 (dB(A))

48.4

Ldn (dB(A))

65.7

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Lot ID: 24118900

Date Received : Oct 24, 2024

Date Reported : Oct 29, 2024

Report Number: 3149934-1

Page 1 of 1

Sample Number	24118900-2
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เสียงโครงการ (GPS 47P 0672434, 1560193)
Measurement Date	Oct 21 - Oct 22, 2024
Measurement by	Thanesuan Sriwasut
Sound Level meter	Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	50.3	82.0	45.9
09:00 AM - 10:00 AM	46.7	68.1	42.7
10:00 AM - 11:00 AM	49.7	75.0	42.2
11:00 AM - 12:00 PM	46.7	64.1	42.6
12:00 PM - 01:00 PM	49.4	67.2	42.6
01:00 PM - 02:00 PM	48.0	68.4	42.5
02:00 PM - 03:00 PM	48.8	77.2	42.5
03:00 PM - 04:00 PM	48.3	69.0	43.0
04:00 PM - 05:00 PM	65.3	93.6	46.7
05:00 PM - 06:00 PM	52.5	71.0	48.6
06:00 PM - 07:00 PM	50.8	73.6	47.1
07:00 PM - 08:00 PM	49.3	65.4	46.5
08:00 PM - 09:00 PM	49.5	66.1	46.4
09:00 PM - 10:00 PM	61.4	76.8	59.6
10:00 PM - 11:00 PM	58.2	67.9	51.9
11:00 PM - 12:00 AM	53.4	70.5	52.2
12:00 AM - 01:00 AM	58.0	68.1	55.3
01:00 AM - 02:00 AM	62.3	67.7	60.1
02:00 AM - 03:00 AM	62.5	71.8	60.1
03:00 AM - 04:00 AM	58.7	68.1	56.4
04:00 AM - 05:00 AM	69.2	85.0	65.8
05:00 AM - 06:00 AM	50.8	77.5	45.5
06:00 AM - 07:00 AM	51.5	73.2	47.3
07:00 AM - 08:00 AM	51.2	68.0	46.8

Leq Average 24 hrs. (dB(A))

59.3

Lmax (dB(A))

93.6

L90 (dB(A))

46.7

Ldn (dB(A))

67.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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5258-21/ EMAIL

S:\Reports\Air Noise rpt ( 1 01PM)



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Lot ID: 24118905

Date Received : Oct 24, 2024

Date Reported : Oct 29, 2024

Report Number: 3149936-1

Page 1 of 1

Sample Number 24118905-1  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณพื้นที่โครงการ (ขณะไม่มีกิจกรรมผลิต 24 hrs.) (GPS 47P 0672434, 1560112)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thaneevan Sriwasut  
Sound Level meter Serial No. 572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	52.3	71.9	48.4
09:00 AM - 10:00 AM	52.4	75.7	48.4
10:00 AM - 11:00 AM	52.4	73.5	48.8
11:00 AM - 12:00 PM	50.7	66.8	47.7
12:00 PM - 01:00 PM	51.4	69.2	48.1
01:00 PM - 02:00 PM	51.0	67.4	47.9
02:00 PM - 03:00 PM	52.7	78.4	49.6
03:00 PM - 04:00 PM	56.5	88.2	52.5
04:00 PM - 05:00 PM	54.7	73.6	52.2
05:00 PM - 06:00 PM	55.1	69.9	52.1
06:00 PM - 07:00 PM	56.3	79.9	54.2
07:00 PM - 08:00 PM	55.6	71.7	53.2
08:00 PM - 09:00 PM	57.8	72.3	54.9
09:00 PM - 10:00 PM	57.9	70.8	53.7
10:00 PM - 11:00 PM	56.9	65.6	51.9
11:00 PM - 12:00 AM	53.3	72.9	49.2
12:00 AM - 01:00 AM	51.5	68.7	49.0
01:00 AM - 02:00 AM	51.5	70.8	48.1
02:00 AM - 03:00 AM	54.5	67.4	48.3
03:00 AM - 04:00 AM	56.2	73.0	50.9
04:00 AM - 05:00 AM	55.0	69.0	50.5
05:00 AM - 06:00 AM	51.3	67.8	48.3
06:00 AM - 07:00 AM	52.2	70.1	48.7
07:00 AM - 08:00 AM	53.6	75.7	49.6

Leq Average 24 hrs. (dB(A))

54.5

Lmax (dB(A))

88.2

L90 (dB(A))

49.2

Ldn (dB(A))

60.6

Standard (dB(A))

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*  
Orawan Rak Yong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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S:\Reports\_Air Noise.rpt ( 1.04PM)



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Lot ID: 24118905

Date Received : Oct 24, 2024

Date Reported : Oct 29, 2024

Report Number: 3149937-1

Page 1 of 1

Sample Number 24118905-2  
Parameter Noise (Leq 24 hrs.)  
Location บริเวณหน้าอาคารศูนย์ด้านทิศเหนือใกล้ฝั่งโครงการ (ขณะไม่มีกิจกรรม 24 hrs.) (GPS 47P 0672434, 1560193)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thaneevan Sriwasut  
Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	51.7	79.4	46.2
09:00 AM - 10:00 AM	49.0	63.7	44.0
10:00 AM - 11:00 AM	50.8	72.3	45.0
11:00 AM - 12:00 PM	49.0	65.3	44.2
12:00 PM - 01:00 PM	49.8	69.0	44.5
01:00 PM - 02:00 PM	54.6	74.4	45.2
02:00 PM - 03:00 PM	51.0	74.8	45.6
03:00 PM - 04:00 PM	55.3	74.9	48.8
04:00 PM - 05:00 PM	52.4	70.7	48.5
05:00 PM - 06:00 PM	58.0	72.1	53.9
06:00 PM - 07:00 PM	62.4	70.7	59.4
07:00 PM - 08:00 PM	52.2	70.4	49.1
08:00 PM - 09:00 PM	51.9	70.0	48.3
09:00 PM - 10:00 PM	50.4	76.4	45.6
10:00 PM - 11:00 PM	47.0	63.3	44.4
11:00 PM - 12:00 AM	48.2	67.3	42.9
12:00 AM - 01:00 AM	45.8	62.2	42.7
01:00 AM - 02:00 AM	60.9	66.3	59.5
02:00 AM - 03:00 AM	63.6	67.5	62.1
03:00 AM - 04:00 AM	60.5	68.6	58.3
04:00 AM - 05:00 AM	53.3	74.6	51.5
05:00 AM - 06:00 AM	49.6	77.8	45.7
06:00 AM - 07:00 AM	51.0	72.7	46.6
07:00 AM - 08:00 AM	51.6	70.5	46.6

Leq Average 24 hrs. (dB(A))

56.0

Lmax (dB(A))

79.4

L90 (dB(A))

46.2

Ldn (dB(A))

63.7

Standard (dB(A))

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*  
Orawan Rak Yong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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S:\Reports\_Air Noise.rpt ( 1.04PM)





## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118902  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149595-1

P/O : J67-009  
Project Name :  
Project Location :

Page 1 of 3

Sample Number 24118902-1  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434, 1560112)  
Measurement Date Oct 21 - Oct 22, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572565

Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)
08:00 AM - 08:05 AM	52.9	48.8	10:40 AM - 10:45 AM	50.2	46.1	01:20 PM - 01:25 PM	50.4	46.0
08:05 AM - 08:10 AM	53.9	50.7	10:45 AM - 10:50 AM	50.2	46.9	01:25 PM - 01:30 PM	48.2	45.2
08:10 AM - 08:15 AM	56.2	51.8	10:50 AM - 10:55 AM	49.2	47.0	01:30 PM - 01:35 PM	48.9	46.1
08:15 AM - 08:20 AM	51.6	49.3	10:55 AM - 11:00 AM	53.3	47.6	01:35 PM - 01:40 PM	49.0	45.5
08:20 AM - 08:25 AM	50.8	48.6	11:00 AM - 11:05 AM	53.0	49.6	01:40 PM - 01:45 PM	49.3	45.2
08:25 AM - 08:30 AM	50.7	48.0	11:05 AM - 11:10 AM	52.1	48.3	01:45 PM - 01:50 PM	49.8	47.0
08:30 AM - 08:35 AM	52.4	48.8	11:10 AM - 11:15 AM	53.0	48.6	01:50 PM - 01:55 PM	52.8	45.7
08:35 AM - 08:40 AM	50.5	47.9	11:15 AM - 11:20 AM	52.3	50.2	01:55 PM - 02:00 PM	48.8	44.9
08:40 AM - 08:45 AM	51.9	46.8	11:20 AM - 11:25 AM	49.7	46.3	02:00 PM - 02:05 PM	51.2	46.3
08:45 AM - 08:50 AM	49.5	47.0	11:25 AM - 11:30 AM	50.1	46.6	02:05 PM - 02:10 PM	50.6	47.1
08:50 AM - 08:55 AM	49.9	46.6	11:30 AM - 11:35 AM	50.2	46.6	02:10 PM - 02:15 PM	51.1	46.1
08:55 AM - 09:00 AM	50.5	47.1	11:35 AM - 11:40 AM	50.1	46.6	02:15 PM - 02:20 PM	55.4	48.9
09:00 AM - 09:05 AM	49.6	46.6	11:40 AM - 11:45 AM	50.0	47.1	02:20 PM - 02:25 PM	51.1	45.3
09:05 AM - 09:10 AM	51.5	48.1	11:45 AM - 11:50 AM	51.2	46.9	02:25 PM - 02:30 PM	52.1	45.3
09:10 AM - 09:15 AM	52.1	47.3	11:50 AM - 11:55 AM	49.7	45.8	02:30 PM - 02:35 PM	51.7	45.5
09:15 AM - 09:20 AM	54.4	48.2	11:55 AM - 12:00 PM	51.3	46.5	02:35 PM - 02:40 PM	50.7	45.8
09:20 AM - 09:25 AM	50.1	47.0	12:00 PM - 12:05 PM	50.9	46.5	02:40 PM - 02:45 PM	48.8	45.5
09:25 AM - 09:30 AM	51.0	47.1	12:05 PM - 12:10 PM	48.4	45.3	02:45 PM - 02:50 PM	49.3	45.3
09:30 AM - 09:35 AM	51.7	46.6	12:10 PM - 12:15 PM	50.4	46.2	02:50 PM - 02:55 PM	49.4	45.1
09:35 AM - 09:40 AM	50.0	46.9	12:15 PM - 12:20 PM	49.6	45.8	02:55 PM - 03:00 PM	48.5	46.3
09:40 AM - 09:45 AM	49.7	46.4	12:20 PM - 12:25 PM	49.0	46.6	03:00 PM - 03:05 PM	50.0	45.9
09:45 AM - 09:50 AM	49.8	45.9	12:25 PM - 12:30 PM	49.1	46.4	03:05 PM - 03:10 PM	49.8	46.6
09:50 AM - 09:55 AM	49.7	45.7	12:30 PM - 12:35 PM	48.8	46.1	03:10 PM - 03:15 PM	50.3	45.8
09:55 AM - 10:00 AM	51.4	46.5	12:35 PM - 12:40 PM	52.8	45.8	03:15 PM - 03:20 PM	48.2	45.4
10:00 AM - 10:05 AM	49.3	46.7	12:40 PM - 12:45 PM	50.7	45.7	03:20 PM - 03:25 PM	48.8	45.0
10:05 AM - 10:10 AM	49.3	46.7	12:45 PM - 12:50 PM	46.6	44.0	03:25 PM - 03:30 PM	47.9	45.0
10:10 AM - 10:15 AM	49.0	45.8	12:50 PM - 12:55 PM	50.9	47.8	03:30 PM - 03:35 PM	49.0	45.8
10:15 AM - 10:20 AM	50.2	47.0	12:55 PM - 01:00 PM	50.4	45.8	03:35 PM - 03:40 PM	48.3	45.7
10:20 AM - 10:25 AM	53.4	47.2	01:00 PM - 01:05 PM	51.2	46.7	03:40 PM - 03:45 PM	50.4	45.4
10:25 AM - 10:30 AM	49.5	46.5	01:05 PM - 01:10 PM	49.4	46.3	03:45 PM - 03:50 PM	48.4	45.0
10:30 AM - 10:35 AM	48.5	46.5	01:10 PM - 01:15 PM	52.1	47.4	03:50 PM - 03:55 PM	48.9	45.3
10:35 AM - 10:40 AM	51.5	46.7	01:15 PM - 01:20 PM	50.1	45.9	03:55 PM - 04:00 PM	54.9	47.6

Approved by

Sarayuth Jitrantont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118902  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149595-1

P/O : J67-009  
Project Name :  
Project Location :

Page 2 of 3

Sample Number 24118902-1  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434, 1560112)  
Measurement Date Oct 21 - Oct 22, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572565

Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)
04:00 PM - 04:05 PM	51.0	47.4	06:40 PM - 06:45 PM	56.7	50.7	09:20 PM - 09:25 PM	53.3	51.7
04:05 PM - 04:10 PM	50.9	48.0	06:45 PM - 06:50 PM	54.9	51.2	09:25 PM - 09:30 PM	53.9	52.5
04:10 PM - 04:15 PM	50.7	48.2	06:50 PM - 06:55 PM	56.5	52.4	09:30 PM - 09:35 PM	53.2	51.9
04:15 PM - 04:20 PM	50.2	47.9	06:55 PM - 07:00 PM	55.1	50.9	09:35 PM - 09:40 PM	64.4	50.7
04:20 PM - 04:25 PM	49.6	46.9	07:00 PM - 07:05 PM	55.2	51.9	09:40 PM - 09:45 PM	52.7	50.4
04:25 PM - 04:30 PM	50.8	48.3	07:05 PM - 07:10 PM	54.9	52.6	09:45 PM - 09:50 PM	52.6	51.0
04:30 PM - 04:35 PM	53.7	48.6	07:10 PM - 07:15 PM	56.0	52.9	09:50 PM - 09:55 PM	53.5	52.3
04:35 PM - 04:40 PM	50.7	48.4	07:15 PM - 07:20 PM	58.8	53.7	09:55 PM - 10:00 PM	53.0	51.8
04:40 PM - 04:45 PM	50.1	48.2	07:20 PM - 07:25 PM	54.8	51.7	10:00 PM - 10:05 PM	53.8	52.5
04:45 PM - 04:50 PM	51.0	48.5	07:25 PM - 07:30 PM	53.3	50.8	10:05 PM - 10:10 PM	54.3	52.1
04:50 PM - 04:55 PM	52.6	48.5	07:30 PM - 07:35 PM	53.6	50.9	10:10 PM - 10:15 PM	52.9	51.0
04:55 PM - 05:00 PM	51.2	48.8	07:35 PM - 07:40 PM	54.6	50.7	10:15 PM - 10:20 PM	51.0	50.1
05:00 PM - 05:05 PM	50.5	48.0	07:40 PM - 07:45 PM	56.3	51.8	10:20 PM - 10:25 PM	53.3	52.1
05:05 PM - 05:10 PM	51.5	48.8	07:45 PM - 07:50 PM	55.4	52.0	10:25 PM - 10:30 PM	52.0	50.1
05:10 PM - 05:15 PM	51.7	48.8	07:50 PM - 07:55 PM	54.7	51.5	10:30 PM - 10:35 PM	53.1	51.2
05:15 PM - 05:20 PM	52.6	49.4	07:55 PM - 08:00 PM	54.4	52.6	10:35 PM - 10:40 PM	52.9	50.2
05:20 PM - 05:25 PM	53.2	48.8	08:00 PM - 08:05 PM	55.5	53.7	10:40 PM - 10:45 PM	51.3	49.8
05:25 PM - 05:30 PM	50.8	48.4	08:05 PM - 08:10 PM	55.7	53.6	10:45 PM - 10:50 PM	52.8	51.0
05:30 PM - 05:35 PM	50.1	48.5	08:10 PM - 08:15 PM	55.1	53.0	10:50 PM - 10:55 PM	52.4	51.4
05:35 PM - 05:40 PM	50.8	48.8	08:15 PM - 08:20 PM	55.9	52.5	10:55 PM - 11:00 PM	53.7	51.9
05:40 PM - 05:45 PM	52.9	50.0	08:20 PM - 08:25 PM	57.7	52.5	11:00 PM - 11:05 PM	56.6	51.8
05:45 PM - 05:50 PM	50.8	49.0	08:25 PM - 08:30 PM	54.3	52.8	11:05 PM - 11:10 PM	57.1	50.3
05:50 PM - 05:55 PM	51.3	48.8	08:30 PM - 08:35 PM	55.6	52.9	11:10 PM - 11:15 PM	52.1	50.6
05:55 PM - 06:00 PM	53.5	50.2	08:35 PM - 08:40 PM	54.1	52.3	11:15 PM - 11:20 PM	53.4	50.5
06:00 PM - 06:05 PM	54.9	49.7	08:40 PM - 08:45 PM	54.4	52.9	11:20 PM - 11:25 PM	54.0	51.8
06:05 PM - 06:10 PM	53.3	50.4	08:45 PM - 08:50 PM	53.6	52.0	11:25 PM - 11:30 PM	52.7	50.9
06:10 PM - 06:15 PM	52.5	49.8	08:50 PM - 08:55 PM	56.1	52.3	11:30 PM - 11:35 PM	51.2	49.5
06:15 PM - 06:20 PM	53.4	50.5	08:55 PM - 09:00 PM	53.3	52.0	11:35 PM - 11:40 PM	50.5	49.6
06:20 PM - 06:25 PM	54.5	52.2	09:00 PM - 09:05 PM	53.3	50.8	11:40 PM - 11:45 PM	52.6	50.6
06:25 PM - 06:30 PM	54.4	51.4	09:05 PM - 09:10 PM	53.2	51.2	11:45 PM - 11:50 PM	52.1	48.6
06:30 PM - 06:35 PM	53.2	51.8	09:10 PM - 09:15 PM	52.0	49.1	11:50 PM - 11:55 PM	50.5	48.6
06:35 PM - 06:40 PM	58.4	51.6	09:15 PM - 09:20 PM	52.6	50.0	11:55 PM - 12:00 AM	50.9	49.2

Approved by

Sarayuth Jitrantont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118902  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149595-1

P/O : J67-009  
Project Name :  
Project Location :

Sample Number 24118902-1  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434, 1560112)  
Measurement Date Oct 21 - Oct 22, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572565

Page 3 of 3

Oct 22, 2024	Leq	L90	Oct 22, 2024	Leq	L90	Oct 22, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
12:00 AM - 12:05 AM	51.8	50.2	02:40 AM - 02:45 AM	50.1	48.0	05:20 AM - 05:25 AM	54.9	49.3
12:05 AM - 12:10 AM	51.4	49.9	02:45 AM - 02:50 AM	51.0	46.8	05:25 AM - 05:30 AM	51.4	49.1
12:10 AM - 12:15 AM	50.6	49.4	02:50 AM - 02:55 AM	48.0	47.1	05:30 AM - 05:35 AM	51.2	49.1
12:15 AM - 12:20 AM	52.7	50.9	02:55 AM - 03:00 AM	51.5	49.1	05:35 AM - 05:40 AM	53.1	52.2
12:20 AM - 12:25 AM	51.9	50.4	03:00 AM - 03:05 AM	50.8	47.4	05:40 AM - 05:45 AM	53.6	52.2
12:25 AM - 12:30 AM	51.4	49.6	03:05 AM - 03:10 AM	48.0	46.1	05:45 AM - 05:50 AM	55.8	50.6
12:30 AM - 12:35 AM	50.7	48.2	03:10 AM - 03:15 AM	50.2	47.7	05:50 AM - 05:55 AM	50.6	49.3
12:35 AM - 12:40 AM	52.4	50.3	03:15 AM - 03:20 AM	49.9	45.6	05:55 AM - 06:00 AM	51.0	49.5
12:40 AM - 12:45 AM	50.3	47.3	03:20 AM - 03:25 AM	51.2	49.8	06:00 AM - 06:05 AM	52.8	48.1
12:45 AM - 12:50 AM	48.3	47.3	03:25 AM - 03:30 AM	51.0	45.3	06:05 AM - 06:10 AM	53.7	51.1
12:50 AM - 12:55 AM	52.2	50.6	03:30 AM - 03:35 AM	48.5	46.1	06:10 AM - 06:15 AM	54.0	52.0
12:55 AM - 01:00 AM	51.6	50.6	03:35 AM - 03:40 AM	48.6	46.0	06:15 AM - 06:20 AM	53.6	50.1
01:00 AM - 01:05 AM	50.0	47.7	03:40 AM - 03:45 AM	51.6	50.1	06:20 AM - 06:25 AM	54.9	49.9
01:05 AM - 01:10 AM	48.7	48.0	03:45 AM - 03:50 AM	50.7	47.3	06:25 AM - 06:30 AM	54.1	50.7
01:10 AM - 01:15 AM	50.8	49.0	03:50 AM - 03:55 AM	48.0	46.3	06:30 AM - 06:35 AM	54.0	50.8
01:15 AM - 01:20 AM	52.5	49.0	03:55 AM - 04:00 AM	49.3	46.5	06:35 AM - 06:40 AM	54.5	52.6
01:20 AM - 01:25 AM	49.0	46.0	04:00 AM - 04:05 AM	49.1	46.9	06:40 AM - 06:45 AM	59.4	51.8
01:25 AM - 01:30 AM	50.5	48.3	04:05 AM - 04:10 AM	50.5	48.1	06:45 AM - 06:50 AM	53.1	50.5
01:30 AM - 01:35 AM	50.4	47.4	04:10 AM - 04:15 AM	49.2	46.5	06:50 AM - 06:55 AM	52.4	50.2
01:35 AM - 01:40 AM	52.0	50.0	04:15 AM - 04:20 AM	48.5	47.4	06:55 AM - 07:00 AM	51.4	49.8
01:40 AM - 01:45 AM	49.8	47.2	04:20 AM - 04:25 AM	53.8	49.9	07:00 AM - 07:05 AM	52.7	50.4
01:45 AM - 01:50 AM	48.4	47.1	04:25 AM - 04:30 AM	73.4	67.3	07:05 AM - 07:10 AM	53.8	50.4
01:50 AM - 01:55 AM	52.1	51.0	04:30 AM - 04:35 AM	74.8	70.5	07:10 AM - 07:15 AM	54.1	50.9
01:55 AM - 02:00 AM	49.1	48.5	04:35 AM - 04:40 AM	73.6	66.6	07:15 AM - 07:20 AM	56.1	54.1
02:00 AM - 02:05 AM	50.4	47.5	04:40 AM - 04:45 AM	64.7	60.9	07:20 AM - 07:25 AM	55.0	50.8
02:05 AM - 02:10 AM	52.1	47.0	04:45 AM - 04:50 AM	59.1	56.9	07:25 AM - 07:30 AM	55.1	51.5
02:10 AM - 02:15 AM	60.7	47.3	04:50 AM - 04:55 AM	56.2	54.1	07:30 AM - 07:35 AM	53.2	51.0
02:15 AM - 02:20 AM	49.1	46.3	04:55 AM - 05:00 AM	54.6	52.3	07:35 AM - 07:40 AM	51.9	49.8
02:20 AM - 02:25 AM	51.9	50.1	05:00 AM - 05:05 AM	67.1	50.0	07:40 AM - 07:45 AM	54.3	51.3
02:25 AM - 02:30 AM	48.6	46.4	05:05 AM - 05:10 AM	57.2	50.2	07:45 AM - 07:50 AM	54.4	50.8
02:30 AM - 02:35 AM	50.9	46.6	05:10 AM - 05:15 AM	54.3	52.9	07:50 AM - 07:55 AM	54.6	49.9
02:35 AM - 02:40 AM	48.9	47.4	05:15 AM - 05:20 AM	55.5	52.2	07:55 AM - 08:00 AM	53.4	49.1

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand), strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittrantont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118902  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149596-1

P/O : J67-009  
Project Name :  
Project Location :

Sample Number 24118902-2  
Parameter Noise Level (Leq 5 min)  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้ฝั่งโครงการ (GPS 47P 0672434, 1560193)  
Measurement Date Oct 21 - Oct 22, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572552

Page 1 of 3

Oct 21, 2024	Leq	L90	Oct 21, 2024	Leq	L90	Oct 21, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
08:00 AM - 08:05 AM	57.1	46.6	10:40 AM - 10:45 AM	45.7	42.4	01:20 PM - 01:25 PM	50.9	43.3
08:05 AM - 08:10 AM	51.0	49.3	10:45 AM - 10:50 AM	49.9	43.9	01:25 PM - 01:30 PM	49.4	42.0
08:10 AM - 08:15 AM	51.0	48.9	10:50 AM - 10:55 AM	51.3	43.1	01:30 PM - 01:35 PM	46.4	41.9
08:15 AM - 08:20 AM	50.9	48.7	10:55 AM - 11:00 AM	51.1	44.2	01:35 PM - 01:40 PM	44.2	41.8
08:20 AM - 08:25 AM	48.0	45.0	11:00 AM - 11:05 AM	46.2	43.1	01:40 PM - 01:45 PM	48.5	43.3
08:25 AM - 08:30 AM	46.0	44.2	11:05 AM - 11:10 AM	45.6	43.2	01:45 PM - 01:50 PM	47.1	43.7
08:30 AM - 08:35 AM	48.1	45.5	11:10 AM - 11:15 AM	46.6	43.0	01:50 PM - 01:55 PM	46.5	43.2
08:35 AM - 08:40 AM	47.5	44.7	11:15 AM - 11:20 AM	45.5	42.9	01:55 PM - 02:00 PM	49.0	43.4
08:40 AM - 08:45 AM	47.0	44.1	11:20 AM - 11:25 AM	46.1	42.3	02:00 PM - 02:05 PM	46.1	43.3
08:45 AM - 08:50 AM	46.7	44.2	11:25 AM - 11:30 AM	46.5	43.2	02:05 PM - 02:10 PM	46.1	42.0
08:50 AM - 08:55 AM	45.8	44.0	11:30 AM - 11:35 AM	47.4	43.0	02:10 PM - 02:15 PM	52.0	43.7
08:55 AM - 09:00 AM	45.3	43.0	11:35 AM - 11:40 AM	48.3	42.7	02:15 PM - 02:20 PM	47.8	44.0
09:00 AM - 09:05 AM	46.5	43.8	11:40 AM - 11:45 AM	48.2	43.0	02:20 PM - 02:25 PM	45.5	42.4
09:05 AM - 09:10 AM	46.9	44.2	11:45 AM - 11:50 AM	46.1	43.4	02:25 PM - 02:30 PM	48.7	42.4
09:10 AM - 09:15 AM	47.6	44.7	11:50 AM - 11:55 AM	45.5	42.5	02:30 PM - 02:35 PM	48.0	43.4
09:15 AM - 09:20 AM	47.1	43.9	11:55 AM - 12:00 PM	46.6	43.7	02:35 PM - 02:40 PM	46.7	42.2
09:20 AM - 09:25 AM	45.2	42.9	12:00 PM - 12:05 PM	46.6	43.2	02:40 PM - 02:45 PM	47.1	42.8
09:25 AM - 09:30 AM	47.9	43.3	12:05 PM - 12:10 PM	45.1	42.5	02:45 PM - 02:50 PM	48.8	43.0
09:30 AM - 09:35 AM	48.2	41.9	12:10 PM - 12:15 PM	47.7	43.0	02:50 PM - 02:55 PM	53.6	43.1
09:35 AM - 09:40 AM	44.3	42.0	12:15 PM - 12:20 PM	48.1	43.2	02:55 PM - 03:00 PM	46.4	42.5
09:40 AM - 09:45 AM	44.6	41.8	12:20 PM - 12:25 PM	48.4	41.9	03:00 PM - 03:05 PM	44.8	42.6
09:45 AM - 09:50 AM	46.3	43.2	12:25 PM - 12:30 PM	47.2	41.8	03:05 PM - 03:10 PM	50.4	43.9
09:50 AM - 09:55 AM	48.7	42.6	12:30 PM - 12:35 PM	51.8	43.7	03:10 PM - 03:15 PM	45.1	42.3
09:55 AM - 10:00 AM	44.4	41.6	12:35 PM - 12:40 PM	50.3	42.9	03:15 PM - 03:20 PM	45.1	42.3
10:00 AM - 10:05 AM	44.4	41.0	12:40 PM - 12:45 PM	45.5	42.0	03:20 PM - 03:25 PM	44.7	42.2
10:05 AM - 10:10 AM	44.8	41.9	12:45 PM - 12:50 PM	50.4	43.4	03:25 PM - 03:30 PM	47.8	42.2
10:10 AM - 10:15 AM	45.6	42.0	12:50 PM - 12:55 PM	51.6	44.5	03:30 PM - 03:35 PM	49.5	43.5
10:15 AM - 10:20 AM	45.0	41.7	12:55 PM - 01:00 PM	52.4	44.0	03:35 PM - 03:40 PM	48.5	42.3
10:20 AM - 10:25 AM	52.5	42.4	01:00 PM - 01:05 PM	49.0	42.6	03:40 PM - 03:45 PM	47.5	42.9
10:25 AM - 10:30 AM	53.8	43.1	01:05 PM - 01:10 PM	45.0	42.3	03:45 PM - 03:50 PM	48.2	43.1
10:30 AM - 10:35 AM	50.9	41.8	01:10 PM - 01:15 PM	48.4	43.4	03:50 PM - 03:55 PM	50.9	47.0
10:35 AM - 10:40 AM	47.9	43.0	01:15 PM - 01:20 PM	47.7	43.0	03:55 PM - 04:00 PM	50.7	44.7

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Approved by

Sarayuth Jittrantont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118902  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149596-1


P/O : J67-009  
Project Name :  
Project Location :

Sample Number 24118902-2  
Parameter Noise Level (Leq 5 min)  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือโครงการ (GPS 47P 0672434, 1560193)  
Measurement Date Oct 21 - Oct 22, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572552

Page 2 of 3

Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 21, 2024 Time	Leq dB(A)	L90 dB(A)
04:00 PM - 04:05 PM	50.3	45.3	06:40 PM - 06:45 PM	49.7	47.2	09:20 PM - 09:25 PM	47.9	45.1
04:05 PM - 04:10 PM	49.9	46.5	06:45 PM - 06:50 PM	50.2	47.6	09:25 PM - 09:30 PM	49.0	45.3
04:10 PM - 04:15 PM	48.2	45.5	06:50 PM - 06:55 PM	49.2	46.6	09:30 PM - 09:35 PM	48.1	45.1
04:15 PM - 04:20 PM	52.3	46.1	06:55 PM - 07:00 PM	50.4	46.8	09:35 PM - 09:40 PM	55.1	45.7
04:19 PM - 04:24 PM	75.9	46.7	07:00 PM - 07:05 PM	49.3	47.3	09:40 PM - 09:45 PM	64.6	46.1
04:25 PM - 04:30 PM	50.7	47.3	07:05 PM - 07:10 PM	49.3	47.5	09:45 PM - 09:50 PM	66.6	66.1
04:30 PM - 04:35 PM	53.0	48.7	07:10 PM - 07:15 PM	51.1	48.1	09:50 PM - 09:55 PM	65.9	64.9
04:35 PM - 04:40 PM	50.4	47.8	07:15 PM - 07:20 PM	48.4	46.5	09:55 PM - 10:00 PM	66.3	65.8
04:40 PM - 04:45 PM	49.4	47.3	07:20 PM - 07:25 PM	47.9	46.2	10:00 PM - 10:05 PM	66.3	65.6
04:45 PM - 04:50 PM	51.5	48.1	07:25 PM - 07:30 PM	50.0	47.2	10:05 PM - 10:10 PM	63.0	45.0
04:50 PM - 04:55 PM	49.7	47.6	07:30 PM - 07:35 PM	48.9	46.7	10:10 PM - 10:15 PM	46.0	45.0
04:55 PM - 05:00 PM	50.1	47.5	07:35 PM - 07:40 PM	48.3	46.0	10:15 PM - 10:20 PM	50.4	45.3
05:00 PM - 05:05 PM	51.2	48.3	07:40 PM - 07:45 PM	49.4	47.2	10:20 PM - 10:25 PM	52.7	52.2
05:05 PM - 05:10 PM	50.9	49.0	07:45 PM - 07:50 PM	50.1	46.4	10:25 PM - 10:30 PM	52.7	51.7
05:10 PM - 05:15 PM	51.9	49.5	07:50 PM - 07:55 PM	50.0	46.2	10:30 PM - 10:35 PM	52.9	52.1
05:15 PM - 05:20 PM	55.3	50.1	07:55 PM - 08:00 PM	48.2	46.3	10:35 PM - 10:40 PM	52.4	52.0
05:20 PM - 05:25 PM	54.9	48.8	08:00 PM - 08:05 PM	50.4	47.4	10:40 PM - 10:45 PM	52.9	52.4
05:25 PM - 05:30 PM	50.3	47.8	08:05 PM - 08:10 PM	51.2	46.9	10:45 PM - 10:50 PM	52.9	52.5
05:30 PM - 05:35 PM	50.6	48.9	08:10 PM - 08:15 PM	49.6	46.9	10:50 PM - 10:55 PM	53.0	52.5
05:35 PM - 05:40 PM	51.3	49.3	08:15 PM - 08:20 PM	51.1	47.9	10:55 PM - 11:00 PM	53.1	52.7
05:40 PM - 05:45 PM	51.3	49.3	08:20 PM - 08:25 PM	50.7	47.0	11:00 PM - 11:05 PM	55.6	52.7
05:45 PM - 05:50 PM	51.1	48.9	08:25 PM - 08:30 PM	48.4	46.3	11:05 PM - 11:10 PM	53.0	52.5
05:50 PM - 05:55 PM	51.8	49.4	08:30 PM - 08:35 PM	49.7	45.9	11:10 PM - 11:15 PM	53.5	52.7
05:55 PM - 06:00 PM	54.7	48.4	08:35 PM - 08:40 PM	48.4	46.5	11:15 PM - 11:20 PM	53.5	52.6
06:00 PM - 06:05 PM	54.2	48.4	08:40 PM - 08:45 PM	48.5	46.6	11:20 PM - 11:25 PM	53.1	52.7
06:05 PM - 06:10 PM	51.6	47.8	08:45 PM - 08:50 PM	48.7	45.9	11:25 PM - 11:30 PM	54.1	52.6
06:10 PM - 06:15 PM	49.3	47.4	08:50 PM - 08:55 PM	47.3	45.9	11:30 PM - 11:35 PM	52.8	52.3
06:15 PM - 06:20 PM	49.8	47.3	08:55 PM - 09:00 PM	48.1	45.8	11:35 PM - 11:40 PM	52.7	52.3
06:20 PM - 06:25 PM	51.5	48.0	09:00 PM - 09:05 PM	53.7	46.2	11:40 PM - 11:45 PM	53.7	52.2
06:25 PM - 06:30 PM	50.6	47.7	09:05 PM - 09:10 PM	47.2	45.3	11:45 PM - 11:50 PM	52.5	51.9
06:30 PM - 06:35 PM	51.1	47.0	09:10 PM - 09:15 PM	47.1	45.1	11:50 PM - 11:55 PM	53.2	51.9
06:35 PM - 06:40 PM	48.8	46.6	09:15 PM - 09:20 PM	49.1	45.1	11:55 PM - 12:00 AM	52.1	51.6

Approved by

  
Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118902  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149596-1

P/O : J67-009  
Project Name :  
Project Location :

Sample Number 24118902-2  
Parameter Noise Level (Leq 5 min)  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือโครงการ (GPS 47P 0672434, 1560193)  
Measurement Date Oct 21 - Oct 22, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572552

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Oct 22, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 22, 2024 Time	Leq dB(A)	L90 dB(A)	Oct 22, 2024 Time	Leq dB(A)	L90 dB(A)
12:00 AM - 12:05 AM	52.4	51.8	02:40 AM - 02:45 AM	43.7	41.8	05:20 AM - 05:25 AM	48.8	44.7
12:05 AM - 12:10 AM	52.3	51.9	02:45 AM - 02:50 AM	42.8	40.9	05:25 AM - 05:30 AM	45.4	43.7
12:10 AM - 12:15 AM	53.0	52.0	02:50 AM - 02:55 AM	46.4	41.4	05:30 AM - 05:35 AM	46.6	44.5
12:15 AM - 12:20 AM	46.1	42.3	02:55 AM - 03:00 AM	62.7	41.7	05:35 AM - 05:40 AM	46.5	44.3
12:20 AM - 12:25 AM	43.7	43.1	03:00 AM - 03:05 AM	66.1	65.2	05:40 AM - 05:45 AM	48.0	44.9
12:25 AM - 12:30 AM	44.7	43.4	03:05 AM - 03:10 AM	61.2	44.2	05:45 AM - 05:50 AM	53.5	46.7
12:30 AM - 12:35 AM	45.2	43.7	03:10 AM - 03:15 AM	64.7	63.8	05:50 AM - 05:55 AM	51.2	47.9
12:35 AM - 12:40 AM	46.6	44.2	03:15 AM - 03:20 AM	53.9	43.8	05:55 AM - 06:00 AM	51.8	49.0
12:40 AM - 12:45 AM	48.8	44.2	03:20 AM - 03:25 AM	45.0	43.8	06:00 AM - 06:05 AM	51.5	48.6
12:45 AM - 12:50 AM	51.9	44.2	03:25 AM - 03:30 AM	44.1	43.3	06:05 AM - 06:10 AM	52.3	47.8
12:50 AM - 12:55 AM	64.2	44.9	03:30 AM - 03:35 AM	44.1	43.1	06:10 AM - 06:15 AM	53.8	48.1
12:55 AM - 01:00 AM	66.0	65.5	03:35 AM - 03:40 AM	43.5	43.0	06:15 AM - 06:20 AM	50.3	47.9
01:00 AM - 01:05 AM	66.1	65.5	03:40 AM - 03:45 AM	44.2	43.5	06:20 AM - 06:25 AM	49.7	47.4
01:05 AM - 01:10 AM	66.0	65.3	03:45 AM - 03:50 AM	44.1	43.5	06:25 AM - 06:30 AM	50.5	47.4
01:10 AM - 01:15 AM	63.0	51.0	03:50 AM - 03:55 AM	44.9	44.0	06:30 AM - 06:35 AM	49.6	46.8
01:15 AM - 01:20 AM	65.0	47.7	03:55 AM - 04:00 AM	44.4	43.4	06:35 AM - 06:40 AM	51.2	48.0
01:20 AM - 01:25 AM	65.4	64.7	04:00 AM - 04:05 AM	44.3	43.4	06:40 AM - 06:45 AM	54.6	48.8
01:25 AM - 01:30 AM	65.1	64.4	04:05 AM - 04:10 AM	45.2	44.2	06:45 AM - 06:50 AM	49.6	47.0
01:30 AM - 01:35 AM	57.2	42.3	04:10 AM - 04:15 AM	45.4	44.3	06:50 AM - 06:55 AM	49.6	47.2
01:35 AM - 01:40 AM	43.1	42.2	04:15 AM - 04:20 AM	43.5	42.6	06:55 AM - 07:00 AM	50.9	47.1
01:40 AM - 01:45 AM	42.8	42.0	04:20 AM - 04:25 AM	69.9	43.0	07:00 AM - 07:05 AM	50.0	47.1
01:45 AM - 01:50 AM	44.6	43.1	04:25 AM - 04:30 AM	76.6	74.7	07:05 AM - 07:10 AM	51.4	48.7
01:50 AM - 01:55 AM	45.0	42.6	04:30 AM - 04:35 AM	75.8	74.1	07:10 AM - 07:15 AM	50.9	48.5
01:55 AM - 02:00 AM	46.6	42.6	04:35 AM - 04:40 AM	66.8	63.6	07:15 AM - 07:20 AM	50.3	47.7
02:00 AM - 02:05 AM	49.1	42.5	04:40 AM - 04:45 AM	59.5	52.7	07:20 AM - 07:25 AM	51.5	48.4
02:05 AM - 02:10 AM	63.5	42.7	04:45 AM - 04:50 AM	55.5	50.7	07:25 AM - 07:30 AM	53.3	48.2
02:10 AM - 02:15 AM	65.6	64.9	04:50 AM - 04:55 AM	48.7	46.9	07:30 AM - 07:35 AM	50.9	45.8
02:15 AM - 02:20 AM	65.1	64.3	04:55 AM - 05:00 AM	48.9	46.2	07:35 AM - 07:40 AM	50.3	45.9
02:20 AM - 02:25 AM	64.7	63.6	05:00 AM - 05:05 AM	54.7	45.5	07:40 AM - 07:45 AM	53.1	48.1
02:25 AM - 02:30 AM	64.9	64.0	05:05 AM - 05:10 AM	48.5	45.5	07:45 AM - 07:50 AM	49.1	45.5
02:30 AM - 02:35 AM	64.7	63.8	05:10 AM - 05:15 AM	50.4	45.0	07:50 AM - 07:55 AM	48.7	44.6
02:35 AM - 02:40 AM	61.6	43.4	05:15 AM - 05:20 AM	53.1	45.0	07:55 AM - 08:00 AM	52.4	46.3

Approved by

  
Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118909  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149598-1

P/O : J67-009

Project Name :

Project Location :

Page 1 of 3

Sample Number 24118909-1  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่โครงการ (ขณะไม่มีกิจกรรมผลิต 24 hrs.) (GPS 47P 0672434, 1560112)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572565

Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
08:00 AM - 08:05 AM	51.7	47.7	10:40 AM - 10:45 AM	51.4	48.5	01:20 PM - 01:25 PM	51.0	47.8
08:05 AM - 08:10 AM	52.7	47.8	10:45 AM - 10:50 AM	52.5	48.6	01:25 PM - 01:30 PM	50.0	46.8
08:10 AM - 08:15 AM	51.9	49.6	10:50 AM - 10:55 AM	51.9	48.9	01:30 PM - 01:35 PM	50.3	48.9
08:15 AM - 08:20 AM	53.1	49.2	10:55 AM - 11:00 AM	52.3	48.8	01:35 PM - 01:40 PM	50.9	49.5
08:20 AM - 08:25 AM	51.2	48.1	11:00 AM - 11:05 AM	50.9	48.1	01:40 PM - 01:45 PM	49.8	47.6
08:25 AM - 08:30 AM	52.9	48.9	11:05 AM - 11:10 AM	51.8	48.5	01:45 PM - 01:50 PM	49.9	47.5
08:30 AM - 08:35 AM	51.6	48.9	11:10 AM - 11:15 AM	50.2	48.4	01:50 PM - 01:55 PM	50.8	48.1
08:35 AM - 08:40 AM	51.0	48.5	11:15 AM - 11:20 AM	49.7	47.8	01:55 PM - 02:00 PM	52.2	48.1
08:40 AM - 08:45 AM	51.9	49.0	11:20 AM - 11:25 AM	50.5	48.7	02:00 PM - 02:05 PM	50.3	47.3
08:45 AM - 08:50 AM	52.7	49.5	11:25 AM - 11:30 AM	49.4	47.6	02:05 PM - 02:10 PM	51.1	48.8
08:50 AM - 08:55 AM	53.2	48.9	11:30 AM - 11:35 AM	50.6	47.9	02:10 PM - 02:15 PM	52.2	48.7
08:55 AM - 09:00 AM	52.6	49.4	11:35 AM - 11:40 AM	50.4	47.1	02:15 PM - 02:20 PM	49.7	47.5
09:00 AM - 09:05 AM	52.2	48.7	11:40 AM - 11:45 AM	50.3	47.9	02:20 PM - 02:25 PM	50.9	48.1
09:05 AM - 09:10 AM	54.9	49.1	11:45 AM - 11:50 AM	50.8	47.4	02:25 PM - 02:30 PM	54.0	49.9
09:10 AM - 09:15 AM	51.3	47.9	11:50 AM - 11:55 AM	52.2	49.0	02:30 PM - 02:35 PM	51.2	49.8
09:15 AM - 09:20 AM	54.2	48.8	11:55 AM - 12:00 PM	51.3	48.2	02:35 PM - 02:40 PM	51.9	50.2
09:20 AM - 09:25 AM	51.8	48.2	12:00 PM - 12:05 PM	52.3	49.9	02:40 PM - 02:45 PM	53.6	51.1
09:25 AM - 09:30 AM	50.5	48.3	12:05 PM - 12:10 PM	50.1	47.3	02:45 PM - 02:50 PM	54.2	51.0
09:30 AM - 09:35 AM	51.5	49.0	12:10 PM - 12:15 PM	50.4	47.9	02:50 PM - 02:55 PM	54.3	51.6
09:35 AM - 09:40 AM	53.0	49.2	12:15 PM - 12:20 PM	50.7	47.7	02:55 PM - 03:00 PM	55.2	52.8
09:40 AM - 09:45 AM	50.9	48.8	12:20 PM - 12:25 PM	49.9	47.4	03:00 PM - 03:05 PM	55.8	52.9
09:45 AM - 09:50 AM	52.1	49.4	12:25 PM - 12:30 PM	51.8	48.5	03:05 PM - 03:10 PM	56.3	52.8
09:50 AM - 09:55 AM	51.1	49.0	12:30 PM - 12:35 PM	51.6	48.6	03:10 PM - 03:15 PM	62.5	54.9
09:55 AM - 10:00 AM	52.5	48.9	12:35 PM - 12:40 PM	51.5	49.0	03:15 PM - 03:20 PM	58.7	54.9
10:00 AM - 10:05 AM	51.2	49.4	12:40 PM - 12:45 PM	51.0	49.4	03:20 PM - 03:25 PM	55.0	53.2
10:05 AM - 10:10 AM	52.3	49.3	12:45 PM - 12:50 PM	54.2	49.1	03:25 PM - 03:30 PM	54.1	52.6
10:10 AM - 10:15 AM	55.1	49.8	12:50 PM - 12:55 PM	50.0	48.4	03:30 PM - 03:35 PM	54.6	53.3
10:15 AM - 10:20 AM	52.6	50.0	12:55 PM - 01:00 PM	51.3	48.1	03:35 PM - 03:40 PM	53.7	51.6
10:20 AM - 10:25 AM	51.6	49.0	01:00 PM - 01:05 PM	53.5	49.8	03:40 PM - 03:45 PM	53.7	52.1
10:25 AM - 10:30 AM	51.5	49.4	01:05 PM - 01:10 PM	51.7	48.7	03:45 PM - 03:50 PM	53.8	52.3
10:30 AM - 10:35 AM	52.2	49.1	01:10 PM - 01:15 PM	50.4	48.1	03:50 PM - 03:55 PM	53.7	51.8
10:35 AM - 10:40 AM	52.1	49.1	01:15 PM - 01:20 PM	49.9	47.7	03:55 PM - 04:00 PM	53.0	50.9

Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118909  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149598-1

P/O : J67-009

Project Name :

Project Location :

Page 2 of 3

Sample Number 24118909-1  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่โครงการ (ขณะไม่มีกิจกรรมผลิต 24 hrs.) (GPS 47P 0672434, 1560112)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572565

Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
04:00 PM - 04:05 PM	55.1	52.2	06:40 PM - 06:45 PM	55.7	54.6	09:20 PM - 09:25 PM	58.5	54.0
04:05 PM - 04:10 PM	54.0	52.9	06:45 PM - 06:50 PM	56.0	54.9	09:25 PM - 09:30 PM	57.2	53.7
04:10 PM - 04:15 PM	54.3	52.9	06:50 PM - 06:55 PM	56.0	54.8	09:30 PM - 09:35 PM	57.3	53.7
04:15 PM - 04:20 PM	54.1	52.7	06:55 PM - 07:00 PM	55.6	54.2	09:35 PM - 09:40 PM	57.3	52.8
04:20 PM - 04:25 PM	54.0	51.8	07:00 PM - 07:05 PM	57.1	54.5	09:40 PM - 09:45 PM	58.4	55.9
04:25 PM - 04:30 PM	54.0	52.4	07:05 PM - 07:10 PM	56.2	54.6	09:45 PM - 09:50 PM	58.9	56.8
04:30 PM - 04:35 PM	54.4	52.6	07:10 PM - 07:15 PM	55.7	54.3	09:50 PM - 09:55 PM	58.4	54.7
04:35 PM - 04:40 PM	54.6	52.8	07:15 PM - 07:20 PM	56.3	54.4	09:55 PM - 10:00 PM	58.0	54.0
04:40 PM - 04:45 PM	55.9	53.1	07:20 PM - 07:25 PM	55.4	53.7	10:00 PM - 10:05 PM	56.3	53.1
04:45 PM - 04:50 PM	54.4	52.8	07:25 PM - 07:30 PM	55.5	53.7	10:05 PM - 10:10 PM	58.9	53.1
04:50 PM - 04:55 PM	56.4	53.2	07:30 PM - 07:35 PM	56.5	53.2	10:10 PM - 10:15 PM	58.2	53.9
04:55 PM - 05:00 PM	54.2	51.7	07:35 PM - 07:40 PM	55.5	53.6	10:15 PM - 10:20 PM	57.7	51.7
05:00 PM - 05:05 PM	53.4	51.2	07:40 PM - 07:45 PM	55.6	53.2	10:20 PM - 10:25 PM	58.2	52.5
05:05 PM - 05:10 PM	54.9	51.8	07:45 PM - 07:50 PM	54.2	52.4	10:25 PM - 10:30 PM	59.0	55.5
05:10 PM - 05:15 PM	53.3	51.0	07:50 PM - 07:55 PM	54.4	52.6	10:30 PM - 10:35 PM	58.0	52.0
05:15 PM - 05:20 PM	54.0	51.9	07:55 PM - 08:00 PM	53.6	52.2	10:35 PM - 10:40 PM	57.8	51.9
05:20 PM - 05:25 PM	55.6	51.2	08:00 PM - 08:05 PM	54.7	52.8	10:40 PM - 10:45 PM	52.9	51.2
05:25 PM - 05:30 PM	52.8	51.3	08:05 PM - 08:10 PM	54.7	53.0	10:45 PM - 10:50 PM	52.2	50.9
05:30 PM - 05:35 PM	56.1	52.1	08:10 PM - 08:15 PM	55.3	53.7	10:50 PM - 10:55 PM	53.4	51.6
05:35 PM - 05:40 PM	55.7	53.3	08:15 PM - 08:20 PM	56.6	55.0	10:55 PM - 11:00 PM	52.5	51.0
05:40 PM - 05:45 PM	56.1	53.5	08:20 PM - 08:25 PM	57.9	55.1	11:00 PM - 11:05 PM	51.8	50.3
05:45 PM - 05:50 PM	55.3	52.3	08:25 PM - 08:30 PM	58.5	56.1	11:05 PM - 11:10 PM	54.8	49.8
05:50 PM - 05:55 PM	56.6	54.9	08:30 PM - 08:35 PM	58.0	56.0	11:10 PM - 11:15 PM	53.0	51.2
05:55 PM - 06:00 PM	56.0	54.4	08:35 PM - 08:40 PM	58.6	55.3	11:15 PM - 11:20 PM	51.6	49.6
06:00 PM - 06:05 PM	56.4	54.9	08:40 PM - 08:45 PM	59.0	56.9	11:20 PM - 11:25 PM	53.8	50.6
06:05 PM - 06:10 PM	55.7	54.3	08:45 PM - 08:50 PM	59.3	57.1	11:25 PM - 11:30 PM	53.9	51.2
06:10 PM - 06:15 PM	55.8	54.5	08:50 PM - 08:55 PM	58.9	56.0	11:30 PM - 11:35 PM	53.8	50.3
06:15 PM - 06:20 PM	57.0	54.6	08:55 PM - 09:00 PM	58.3	56.3	11:35 PM - 11:40 PM	52.2	47.3
06:20 PM - 06:25 PM	56.6	54.8	09:00 PM - 09:05 PM	57.5	55.7	11:40 PM - 11:45 PM	50.7	46.4
06:25 PM - 06:30 PM	56.4	54.3	09:05 PM - 09:10 PM	56.8	53.2	11:45 PM - 11:50 PM	54.0	48.7
06:30 PM - 06:35 PM	58.6	54.5	09:10 PM - 09:15 PM	56.5	53.9	11:50 PM - 11:55 PM	55.8	49.3
06:35 PM - 06:40 PM	55.2	54.1	09:15 PM - 09:20 PM	59.1	52.6	11:55 PM - 12:00 AM	51.1	47.6

Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118909  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149598-1

P/O : J67-009

Project Name :

Project Location :

Sample Number 24118909-1  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่โครงการ (ขณะไม่มีกิจกรรมผลิต 24 hrs.) (GPS 47P 0672434, 1560112)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572565

Page 3 of 3

Oct 21, 2024	Leq	L90	Oct 21, 2024	Leq	L90	Oct 21, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
12:00 AM - 12:05 AM	51.9	48.7	02:40 AM - 02:45 AM	54.4	47.9	05:20 AM - 05:25 AM	52.2	46.8
12:05 AM - 12:10 AM	54.5	50.8	02:45 AM - 02:50 AM	56.3	48.1	05:25 AM - 05:30 AM	52.0	49.0
12:10 AM - 12:15 AM	50.0	48.9	02:50 AM - 02:55 AM	56.2	47.3	05:30 AM - 05:35 AM	53.3	49.6
12:15 AM - 12:20 AM	51.2	49.3	02:55 AM - 03:00 AM	56.3	47.7	05:35 AM - 05:40 AM	50.5	49.6
12:20 AM - 12:25 AM	49.8	47.6	03:00 AM - 03:05 AM	56.1	50.3	05:40 AM - 05:45 AM	52.7	49.4
12:25 AM - 12:30 AM	51.9	49.7	03:05 AM - 03:10 AM	50.6	46.8	05:45 AM - 05:50 AM	50.2	49.1
12:30 AM - 12:35 AM	52.7	50.3	03:10 AM - 03:15 AM	56.9	49.9	05:50 AM - 05:55 AM	53.3	48.9
12:35 AM - 12:40 AM	51.1	49.2	03:15 AM - 03:20 AM	53.9	49.7	05:55 AM - 06:00 AM	52.6	50.8
12:40 AM - 12:45 AM	52.0	48.6	03:20 AM - 03:25 AM	56.1	49.2	06:00 AM - 06:05 AM	52.8	49.8
12:45 AM - 12:50 AM	48.8	48.2	03:25 AM - 03:30 AM	57.1	49.4	06:05 AM - 06:10 AM	52.8	48.8
12:50 AM - 12:55 AM	50.5	49.5	03:30 AM - 03:35 AM	58.4	56.9	06:10 AM - 06:15 AM	51.1	48.3
12:55 AM - 01:00 AM	51.2	47.7	03:35 AM - 03:40 AM	57.8	51.6	06:15 AM - 06:20 AM	51.1	48.7
01:00 AM - 01:05 AM	50.9	48.9	03:40 AM - 03:45 AM	55.8	51.6	06:20 AM - 06:25 AM	52.2	48.9
01:05 AM - 01:10 AM	52.1	49.0	03:45 AM - 03:50 AM	55.8	50.3	06:25 AM - 06:30 AM	52.0	49.8
01:10 AM - 01:15 AM	49.9	49.3	03:50 AM - 03:55 AM	54.4	50.4	06:30 AM - 06:35 AM	53.8	49.3
01:15 AM - 01:20 AM	49.3	48.1	03:55 AM - 04:00 AM	56.6	53.2	06:35 AM - 06:40 AM	50.9	48.7
01:20 AM - 01:25 AM	51.1	48.4	04:00 AM - 04:05 AM	55.8	50.9	06:40 AM - 06:45 AM	51.6	48.4
01:25 AM - 01:30 AM	50.4	48.1	04:05 AM - 04:10 AM	55.7	49.4	06:45 AM - 06:50 AM	52.2	50.0
01:30 AM - 01:35 AM	51.6	48.6	04:10 AM - 04:15 AM	55.0	49.6	06:50 AM - 06:55 AM	51.9	49.4
01:35 AM - 01:40 AM	53.1	49.0	04:15 AM - 04:20 AM	55.4	50.5	06:55 AM - 07:00 AM	53.0	49.1
01:40 AM - 01:45 AM	50.7	47.9	04:20 AM - 04:25 AM	55.8	50.7	07:00 AM - 07:05 AM	51.4	48.4
01:45 AM - 01:50 AM	54.6	46.1	04:25 AM - 04:30 AM	58.1	56.5	07:05 AM - 07:10 AM	52.8	49.0
01:50 AM - 01:55 AM	50.6	46.4	04:30 AM - 04:35 AM	55.7	51.9	07:10 AM - 07:15 AM	54.3	51.6
01:55 AM - 02:00 AM	50.8	48.8	04:35 AM - 04:40 AM	54.1	48.7	07:15 AM - 07:20 AM	54.4	51.0
02:00 AM - 02:05 AM	54.8	50.2	04:40 AM - 04:45 AM	54.8	50.9	07:20 AM - 07:25 AM	55.5	51.4
02:05 AM - 02:10 AM	49.7	47.2	04:45 AM - 04:50 AM	51.7	48.9	07:25 AM - 07:30 AM	55.4	51.4
02:10 AM - 02:15 AM	50.6	46.9	04:50 AM - 04:55 AM	50.6	47.6	07:30 AM - 07:35 AM	53.8	50.1
02:15 AM - 02:20 AM	51.1	46.8	04:55 AM - 05:00 AM	51.2	48.2	07:35 AM - 07:40 AM	53.3	50.7
02:20 AM - 02:25 AM	55.3	52.2	05:00 AM - 05:05 AM	50.1	47.9	07:40 AM - 07:45 AM	54.9	49.9
02:25 AM - 02:30 AM	53.9	49.8	05:05 AM - 05:10 AM	50.2	47.0	07:45 AM - 07:50 AM	51.3	48.7
02:30 AM - 02:35 AM	53.9	47.6	05:10 AM - 05:15 AM	49.3	45.8	07:50 AM - 07:55 AM	51.2	48.3
02:35 AM - 02:40 AM	55.6	50.7	05:15 AM - 05:20 AM	50.3	46.7	07:55 AM - 08:00 AM	50.6	47.6

Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118909  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149599-1

P/O : J67-009

Project Name :

Project Location :

Sample Number 24118909-2  
Parameter Noise Level (Leq 5 min)  
Location บริเวณพื้นที่ก่อสร้าง (ขณะไม่มีกิจกรรม 24 hrs.) (GPS 47P 0672434, 1560193)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thanesuan Sriwasut  
Sound Level meter Serial No. 00572552

Page 1 of 3

Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
08:00 AM - 08:05 AM	53.2	46.2	10:40 AM - 10:45 AM	52.1	46.9	01:20 PM - 01:25 PM	50.1	45.1
08:05 AM - 08:10 AM	56.2	50.3	10:45 AM - 10:50 AM	50.6	45.7	01:25 PM - 01:30 PM	48.9	44.0
08:10 AM - 08:15 AM	53.1	47.3	10:50 AM - 10:55 AM	49.2	44.8	01:30 PM - 01:35 PM	49.0	45.8
08:15 AM - 08:20 AM	49.1	45.4	10:55 AM - 11:00 AM	51.3	44.6	01:35 PM - 01:40 PM	47.4	45.0
08:20 AM - 08:25 AM	49.2	46.3	11:00 AM - 11:05 AM	48.6	44.6	01:40 PM - 01:45 PM	49.1	44.5
08:25 AM - 08:30 AM	51.1	47.4	11:05 AM - 11:10 AM	48.7	44.2	01:45 PM - 01:50 PM	61.3	45.6
08:30 AM - 08:35 AM	53.2	47.1	11:10 AM - 11:15 AM	48.3	44.9	01:50 PM - 01:55 PM	60.9	50.8
08:35 AM - 08:40 AM	50.2	47.1	11:15 AM - 11:20 AM	47.2	44.2	01:55 PM - 02:00 PM	51.5	46.1
08:40 AM - 08:45 AM	50.5	46.9	11:20 AM - 11:25 AM	49.1	44.3	02:00 PM - 02:05 PM	48.9	45.4
08:45 AM - 08:50 AM	49.1	44.9	11:25 AM - 11:30 AM	48.9	44.6	02:05 PM - 02:10 PM	55.0	44.1
08:50 AM - 08:55 AM	47.2	44.9	11:30 AM - 11:35 AM	47.1	44.7	02:10 PM - 02:15 PM	47.9	44.8
08:55 AM - 09:00 AM	50.4	44.7	11:35 AM - 11:40 AM	52.6	44.4	02:15 PM - 02:20 PM	46.6	44.0
09:00 AM - 09:05 AM	47.3	44.9	11:40 AM - 11:45 AM	49.5	44.6	02:20 PM - 02:25 PM	49.1	44.3
09:05 AM - 09:10 AM	46.2	43.7	11:45 AM - 11:50 AM	48.3	44.4	02:25 PM - 02:30 PM	52.9	46.0
09:10 AM - 09:15 AM	46.9	44.3	11:50 AM - 11:55 AM	48.5	45.0	02:30 PM - 02:35 PM	47.0	44.5
09:15 AM - 09:20 AM	53.3	44.2	11:55 AM - 12:00 PM	47.5	45.5	02:35 PM - 02:40 PM	48.2	45.0
09:20 AM - 09:25 AM	47.1	44.3	12:00 PM - 12:05 PM	46.6	44.1	02:40 PM - 02:45 PM	49.9	46.3
09:25 AM - 09:30 AM	46.8	43.7	12:05 PM - 12:10 PM	48.4	44.5	02:45 PM - 02:50 PM	53.4	48.2
09:30 AM - 09:35 AM	50.3	45.2	12:10 PM - 12:15 PM	46.7	44.8	02:50 PM - 02:55 PM	51.7	48.2
09:35 AM - 09:40 AM	46.7	44.4	12:15 PM - 12:20 PM	49.6	45.8	02:55 PM - 03:00 PM	51.6	48.8
09:40 AM - 09:45 AM	49.3	45.4	12:20 PM - 12:25 PM	51.9	45.1	03:00 PM - 03:05 PM	51.2	48.9
09:45 AM - 09:50 AM	49.1	44.2	12:25 PM - 12:30 PM	51.8	45.3	03:05 PM - 03:10 PM	57.2	50.5
09:50 AM - 09:55 AM	47.5	43.5	12:30 PM - 12:35 PM	50.3	45.2	03:10 PM - 03:15 PM	61.3	55.0
09:55 AM - 10:00 AM	51.0	45.1	12:35 PM - 12:40 PM	46.7	44.5	03:15 PM - 03:20 PM	60.1	49.8
10:00 AM - 10:05 AM	49.0	45.9	12:40 PM - 12:45 PM	49.1	45.6	03:20 PM - 03:25 PM	51.1	47.8
10:05 AM - 10:10 AM	51.1	47.0	12:45 PM - 12:50 PM	53.5	44.8	03:25 PM - 03:30 PM	51.2	48.0
10:10 AM - 10:15 AM	47.5	44.3	12:50 PM - 12:55 PM	45.8	43.2	03:30 PM - 03:35 PM	49.6	47.1
10:15 AM - 10:20 AM	49.4	45.5	12:55 PM - 01:00 PM	49.8	45.1	03:35 PM - 03:40 PM	50.5	46.8
10:20 AM - 10:25 AM	49.3	44.1	01:00 PM - 01:05 PM	48.9	44.9	03:40 PM - 03:45 PM	53.1	47.8
10:25 AM - 10:30 AM	53.0	45.0	01:05 PM - 01:10 PM	49.4	44.0	03:45 PM - 03:50 PM	50.8	47.6
10:30 AM - 10:35 AM	53.3	44.8	01:10 PM - 01:15 PM	50.1	44.4	03:50 PM - 03:55 PM	51.2	47.2
10:35 AM - 10:40 AM	49.5	45.7	01:15 PM - 01:20 PM	47.1	44.4	03:55 PM - 04:00 PM	50.1	47.4

Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118909  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149599-1

P/O : J67-009  
Project Name :  
Project Location :

Sample Number 24118909-2  
Parameter Noise Level (Leq 5 min)  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เสียงโครงการ (ขณะไม่มีกิจกรรม 24 hrs.) (GPS 47P 0672434, 1560193)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thanuesan Sriwasut  
Sound Level meter Serial No. 00572552

Page 2 of 3

Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90	Oct 20, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
04:00 PM - 04:05 PM	50.9	49.2	06:40 PM - 06:45 PM	63.6	61.4	09:20 PM - 09:25 PM	50.7	45.9
04:05 PM - 04:10 PM	53.2	49.2	06:45 PM - 06:50 PM	63.8	61.2	09:25 PM - 09:30 PM	47.6	45.8
04:10 PM - 04:15 PM	51.6	48.2	06:50 PM - 06:55 PM	59.8	50.6	09:30 PM - 09:35 PM	48.0	46.5
04:15 PM - 04:20 PM	52.4	48.4	06:55 PM - 07:00 PM	52.2	50.5	09:35 PM - 09:40 PM	48.7	46.6
04:20 PM - 04:25 PM	54.3	49.7	07:00 PM - 07:05 PM	52.2	50.2	09:40 PM - 09:45 PM	47.4	45.9
04:25 PM - 04:30 PM	51.5	49.2	07:05 PM - 07:10 PM	53.3	50.3	09:45 PM - 09:50 PM	49.7	46.4
04:30 PM - 04:35 PM	50.8	48.5	07:10 PM - 07:15 PM	53.7	50.3	09:50 PM - 09:55 PM	47.2	44.4
04:35 PM - 04:40 PM	53.0	49.7	07:15 PM - 07:20 PM	52.0	50.0	09:55 PM - 10:00 PM	47.2	44.5
04:40 PM - 04:45 PM	51.8	48.9	07:20 PM - 07:25 PM	51.4	49.4	10:00 PM - 10:05 PM	49.5	45.0
04:45 PM - 04:50 PM	52.3	49.2	07:25 PM - 07:30 PM	53.4	49.9	10:05 PM - 10:10 PM	46.5	44.1
04:50 PM - 04:55 PM	53.0	49.3	07:30 PM - 07:35 PM	51.5	49.7	10:10 PM - 10:15 PM	47.5	44.8
04:55 PM - 05:00 PM	52.2	48.3	07:35 PM - 07:40 PM	51.3	49.6	10:15 PM - 10:20 PM	48.0	46.6
05:00 PM - 05:05 PM	50.5	47.6	07:40 PM - 07:45 PM	51.1	48.7	10:20 PM - 10:25 PM	47.7	45.3
05:05 PM - 05:10 PM	53.9	49.7	07:45 PM - 07:50 PM	50.5	49.1	10:25 PM - 10:30 PM	47.8	45.4
05:10 PM - 05:15 PM	52.1	49.3	07:50 PM - 07:55 PM	53.8	47.9	10:30 PM - 10:35 PM	46.8	45.3
05:15 PM - 05:20 PM	55.1	49.4	07:55 PM - 08:00 PM	50.4	48.7	10:35 PM - 10:40 PM	45.5	43.7
05:20 PM - 05:25 PM	50.6	48.1	08:00 PM - 08:05 PM	49.5	48.2	10:40 PM - 10:45 PM	44.9	43.7
05:25 PM - 05:30 PM	51.2	48.5	08:05 PM - 08:10 PM	50.3	48.7	10:45 PM - 10:50 PM	44.4	43.1
05:30 PM - 05:35 PM	52.6	50.2	08:10 PM - 08:15 PM	50.8	48.7	10:50 PM - 10:55 PM	47.8	44.3
05:35 PM - 05:40 PM	53.7	50.6	08:15 PM - 08:20 PM	52.0	49.1	10:55 PM - 11:00 PM	45.3	43.3
05:40 PM - 05:45 PM	53.3	50.3	08:20 PM - 08:25 PM	54.0	49.6	11:00 PM - 11:05 PM	45.4	43.0
05:45 PM - 05:50 PM	62.1	51.2	08:25 PM - 08:30 PM	53.4	50.3	11:05 PM - 11:10 PM	45.5	42.1
05:50 PM - 05:55 PM	62.9	60.4	08:30 PM - 08:35 PM	52.2	48.1	11:10 PM - 11:15 PM	44.6	42.3
05:55 PM - 06:00 PM	63.5	61.1	08:35 PM - 08:40 PM	53.0	49.7	11:15 PM - 11:20 PM	46.8	43.4
06:00 PM - 06:05 PM	62.5	60.0	08:40 PM - 08:45 PM	51.9	49.3	11:20 PM - 11:25 PM	46.7	44.3
06:05 PM - 06:10 PM	62.0	59.9	08:45 PM - 08:50 PM	51.3	49.6	11:25 PM - 11:30 PM	53.2	44.3
06:10 PM - 06:15 PM	62.4	59.9	08:50 PM - 08:55 PM	51.1	48.6	11:30 PM - 11:35 PM	51.2	43.3
06:15 PM - 06:20 PM	61.8	59.6	08:55 PM - 09:00 PM	50.9	47.1	11:35 PM - 11:40 PM	45.9	43.5
06:20 PM - 06:25 PM	62.3	60.0	09:00 PM - 09:05 PM	49.2	45.6	11:40 PM - 11:45 PM	43.8	43.0
06:25 PM - 06:30 PM	64.2	61.2	09:05 PM - 09:10 PM	49.9	47.3	11:45 PM - 11:50 PM	44.9	42.8
06:30 PM - 06:35 PM	63.6	61.1	09:10 PM - 09:15 PM	53.5	45.2	11:50 PM - 11:55 PM	51.3	43.1
06:35 PM - 06:40 PM	63.7	61.3	09:15 PM - 09:20 PM	55.4	46.9	11:55 PM - 12:00 AM	43.6	42.4



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

Lot ID: 24118909  
Date Received :Oct 24, 2024  
Date Reported :Oct 30, 2024  
Report Number : 3149599-1

P/O : J67-009  
Project Name :  
Project Location :

Sample Number 24118909-2  
Parameter Noise Level (Leq 5 min)  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เสียงโครงการ (ขณะไม่มีกิจกรรม 24 hrs.) (GPS 47P 0672434, 1560193)  
Measurement Date Oct 20 - Oct 21, 2024  
Measurement by Thanuesan Sriwasut  
Sound Level meter Serial No. 00572552

Page 3 of 3

Oct 21, 2024	Leq	L90	Oct 21, 2024	Leq	L90	Oct 21, 2024	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
12:00 AM - 12:05 AM	47.5	42.8	02:40 AM - 02:45 AM	63.8	63.0	05:20 AM - 05:25 AM	47.9	45.3
12:05 AM - 12:10 AM	44.7	42.8	02:45 AM - 02:50 AM	63.9	63.1	05:25 AM - 05:30 AM	49.9	45.9
12:10 AM - 12:15 AM	44.0	42.9	02:50 AM - 02:55 AM	63.8	63.1	05:30 AM - 05:35 AM	46.6	45.1
12:15 AM - 12:20 AM	44.3	43.0	02:55 AM - 03:00 AM	63.4	62.7	05:35 AM - 05:40 AM	48.1	45.2
12:20 AM - 12:25 AM	45.4	43.2	03:00 AM - 03:05 AM	64.0	63.4	05:40 AM - 05:45 AM	46.5	44.8
12:25 AM - 12:30 AM	49.2	43.2	03:05 AM - 03:10 AM	61.4	46.8	05:45 AM - 05:50 AM	48.9	46.1
12:30 AM - 12:35 AM	47.1	42.8	03:10 AM - 03:15 AM	46.3	42.9	05:50 AM - 05:55 AM	53.4	47.6
12:35 AM - 12:40 AM	46.6	43.5	03:15 AM - 03:20 AM	48.6	42.8	05:55 AM - 06:00 AM	53.1	48.9
12:40 AM - 12:45 AM	43.9	42.8	03:20 AM - 03:25 AM	46.3	42.1	06:00 AM - 06:05 AM	55.0	48.1
12:45 AM - 12:50 AM	43.6	42.3	03:25 AM - 03:30 AM	49.4	47.7	06:05 AM - 06:10 AM	50.7	47.4
12:50 AM - 12:55 AM	43.8	42.4	03:30 AM - 03:35 AM	62.2	48.9	06:10 AM - 06:15 AM	49.7	46.7
12:55 AM - 01:00 AM	45.2	42.9	03:35 AM - 03:40 AM	62.5	61.7	06:15 AM - 06:20 AM	50.1	47.1
01:00 AM - 01:05 AM	45.4	43.1	03:40 AM - 03:45 AM	62.1	61.5	06:20 AM - 06:25 AM	50.1	47.6
01:05 AM - 01:10 AM	45.2	43.4	03:45 AM - 03:50 AM	62.4	61.9	06:25 AM - 06:30 AM	51.5	47.5
01:10 AM - 01:15 AM	45.1	43.4	03:50 AM - 03:55 AM	62.4	61.9	06:30 AM - 06:35 AM	50.8	46.9
01:15 AM - 01:20 AM	45.6	43.0	03:55 AM - 04:00 AM	58.9	50.1	06:35 AM - 06:40 AM	49.2	46.8
01:20 AM - 01:25 AM	45.8	43.1	04:00 AM - 04:05 AM	62.7	61.8	06:40 AM - 06:45 AM	51.1	46.6
01:25 AM - 01:30 AM	60.9	43.4	04:05 AM - 04:10 AM	48.1	44.5	06:45 AM - 06:50 AM	51.0	46.3
01:30 AM - 01:35 AM	63.5	62.8	04:10 AM - 04:15 AM	46.9	44.4	06:50 AM - 06:55 AM	48.9	46.3
01:35 AM - 01:40 AM	63.2	62.5	04:15 AM - 04:20 AM	47.1	44.3	06:55 AM - 07:00 AM	49.7	46.4
01:40 AM - 01:45 AM	63.1	62.1	04:20 AM - 04:25 AM	48.8	47.8	07:00 AM - 07:05 AM	51.4	46.9
01:45 AM - 01:50 AM	63.6	62.7	04:25 AM - 04:30 AM	47.8	46.0	07:05 AM - 07:10 AM	53.3	48.2
01:50 AM - 01:55 AM	63.8	63.1	04:30 AM - 04:35 AM	51.5	43.2	07:10 AM - 07:15 AM	50.6	46.9
01:55 AM - 02:00 AM	63.7	63.0	04:35 AM - 04:40 AM	50.9	43.5	07:15 AM - 07:20 AM	51.0	46.7
02:00 AM - 02:05 AM	63.9	63.2	04:40 AM - 04:45 AM	45.6	43.6	07:20 AM - 07:25 AM	53.2	48.1
02:05 AM - 02:10 AM	63.8	63.1	04:45 AM - 04:50 AM	44.4	43.2	07:25 AM - 07:30 AM	51.0	48.1
02:10 AM - 02:15 AM	64.0	63.4	04:50 AM - 04:55 AM	44.8	43.1	07:30 AM - 07:35 AM	48.6	45.4
02:15 AM - 02:20 AM	64.1	63.3	04:55 AM - 05:00 AM	46.8	44.6	07:35 AM - 07:40 AM	55.5	50.9
02:20 AM - 02:25 AM	64.0	63.4	05:00 AM - 05:05 AM	46.9	45.5	07:40 AM - 07:45 AM	49.2	45.4
02:25 AM - 02:30 AM	63.2	62.1	05:05 AM - 05:10 AM	45.8	44.9	07:45 AM - 07:50 AM	47.5	43.9
02:30 AM - 02:35 AM	63.5	62.9	05:10 AM - 05:15 AM	48.1	45.4	07:50 AM - 07:55 AM	48.6	44.0
02:35 AM - 02:40 AM	61.4	49.3	05:15 AM - 05:20 AM	51.0	45.6	07:55 AM - 08:00 AM	52.1	47.9

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 2478379  
Date Received : Oct 24, 2024  
Date Reported : Oct 31, 2024  
Report No. : 3148735-1

Page 1 of 3

Sample No. 2478379-1  
Parameter Noise  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434,1560112) (Shut down)  
Measurement Date Oct 20 - 21, 2024  
Measurement by Woravut Deenuk  
Sound Level Meter 00572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	52.3	71.9	48.8
09:00 AM - 10:00 AM	52.4	75.7	48.8
10:00 AM - 11:00 AM	52.4	73.5	49.2
11:00 AM - 12:00 PM	50.7	66.8	48.1
12:00 PM - 01:00 PM	51.4	69.2	48.5
01:00 PM - 02:00 PM	51.0	67.4	48.3
02:00 PM - 03:00 PM	52.7	78.4	50.0
03:00 PM - 04:00 PM	56.5	88.2	52.9
04:00 PM - 05:00 PM	54.7	73.6	52.6
05:00 PM - 06:00 PM	55.1	69.9	52.6
06:00 PM - 07:00 PM	56.3	79.9	54.5
07:00 PM - 08:00 PM	55.6	71.7	53.6
08:00 PM - 09:00 PM	57.8	72.3	55.5
09:00 PM - 10:00 PM	57.9	70.8	54.4
10:00 PM - 10:05 PM	56.3	65.3	53.1
10:05 PM - 10:10 PM	58.9	64.7	53.1
10:10 PM - 10:15 PM	58.2	64.2	53.9
10:15 PM - 10:20 PM	57.7	63.9	51.7
10:20 PM - 10:25 PM	58.2	64.5	52.5
10:25 PM - 10:30 PM	59.0	65.5	55.5
10:30 PM - 10:35 PM	58.0	63.9	52.0
10:35 PM - 10:40 PM	57.8	65.6	51.9
10:40 PM - 10:45 PM	52.9	58.2	51.2
10:45 PM - 10:50 PM	52.2	64.2	50.9
10:50 PM - 10:55 PM	53.4	58.7	51.6
10:55 PM - 11:00 PM	52.5	60.4	51.0
11:00 PM - 11:05 PM	51.8	62.3	50.3
11:05 PM - 11:10 PM	54.8	72.9	49.8
11:10 PM - 11:15 PM	53.0	59.0	51.2
11:15 PM - 11:20 PM	51.6	59.2	49.6
11:20 PM - 11:25 PM	53.8	69.8	50.6
11:25 PM - 11:30 PM	53.9	62.6	51.2
11:30 PM - 11:35 PM	53.8	63.1	50.3
11:35 PM - 11:40 PM	52.2	64.3	47.3
11:40 PM - 11:45 PM	50.7	62.4	46.4
11:45 PM - 11:50 PM	54.0	69.8	48.7
11:50 PM - 11:55 PM	55.8	70.0	49.3
11:55 PM - 12:00 AM	51.1	64.9	47.6
12:00 AM - 12:05 AM	51.9	67.4	48.7
12:05 AM - 12:10 AM	54.5	68.7	50.8



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 2478379  
Date Received : Oct 24, 2024  
Date Reported : Oct 31, 2024  
Report No. : 3148735-1

Page 2 of 3

Sample No. 2478379-1  
Parameter Noise  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434,1560112) (Shut down)  
Measurement Date Oct 20 - 21, 2024  
Measurement by Woravut Deenuk  
Sound Level Meter 00572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:10 AM - 12:15 AM	50.0	52.2	48.9
12:15 AM - 12:20 AM	51.2	58.6	49.3
12:20 AM - 12:25 AM	49.8	61.2	47.6
12:25 AM - 12:30 AM	51.9	58.8	49.7
12:30 AM - 12:35 AM	52.7	61.7	50.3
12:35 AM - 12:40 AM	51.1	60.6	49.2
12:40 AM - 12:45 AM	52.0	58.8	48.6
12:45 AM - 12:50 AM	48.8	52.1	48.2
12:50 AM - 12:55 AM	50.5	52.4	49.5
12:55 AM - 01:00 AM	51.2	58.6	47.7
01:00 AM - 01:05 AM	50.9	60.7	48.9
01:05 AM - 01:10 AM	52.1	60.2	49.0
01:10 AM - 01:15 AM	49.9	52.9	49.3
01:15 AM - 01:20 AM	49.3	54.0	48.1
01:20 AM - 01:25 AM	51.1	59.0	48.4
01:25 AM - 01:30 AM	50.4	56.9	48.1
01:30 AM - 01:35 AM	51.6	59.5	48.6
01:35 AM - 01:40 AM	53.1	58.4	49.0
01:40 AM - 01:45 AM	50.7	64.4	47.9
01:45 AM - 01:50 AM	54.6	70.8	46.1
01:50 AM - 01:55 AM	50.6	58.3	46.4
01:55 AM - 02:00 AM	50.8	64.4	48.8
02:00 AM - 02:05 AM	54.8	59.8	50.2
02:05 AM - 02:10 AM	49.7	58.5	47.2
02:10 AM - 02:15 AM	50.6	58.0	46.9
02:15 AM - 02:20 AM	51.1	59.2	46.8
02:20 AM - 02:25 AM	55.3	60.1	52.2
02:25 AM - 02:30 AM	53.9	59.2	49.8
02:30 AM - 02:35 AM	53.9	58.8	47.6
02:35 AM - 02:40 AM	55.6	59.6	50.7
02:40 AM - 02:45 AM	54.4	59.2	47.9
02:45 AM - 02:50 AM	56.3	60.1	48.1
02:50 AM - 02:55 AM	56.2	67.4	47.3
02:55 AM - 03:00 AM	56.3	65.3	47.7
03:00 AM - 03:05 AM	56.1	60.8	50.3
03:05 AM - 03:10 AM	50.6	60.8	46.8
03:10 AM - 03:15 AM	56.9	60.3	49.9
03:15 AM - 03:20 AM	53.9	61.6	49.7
03:20 AM - 03:25 AM	56.1	73.0	49.2
03:25 AM - 03:30 AM	57.1	65.2	49.4

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Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager

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Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager





## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Sample No. 2478379-1  
Parameter Noise  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434,1560112) (Shut down)  
Measurement Date Oct 20 - 21, 2024  
Measurement by Woravut Deenuk  
Sound Level Meter 00572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:30 AM - 03:35 AM	58.4	60.9	56.9
03:35 AM - 03:40 AM	57.8	61.2	51.6
03:40 AM - 03:45 AM	55.8	61.4	51.6
03:45 AM - 03:50 AM	55.8	66.1	50.3
03:50 AM - 03:55 AM	54.4	59.6	50.4
03:55 AM - 04:00 AM	56.6	60.8	53.2
04:00 AM - 04:05 AM	55.8	63.5	50.9
04:05 AM - 04:10 AM	55.7	65.8	49.4
04:10 AM - 04:15 AM	55.0	64.7	49.6
04:15 AM - 04:20 AM	55.4	65.9	50.5
04:20 AM - 04:25 AM	55.8	63.1	50.7
04:25 AM - 04:30 AM	58.1	61.3	56.5
04:30 AM - 04:35 AM	55.7	59.4	51.9
04:35 AM - 04:40 AM	54.1	65.1	48.7
04:40 AM - 04:45 AM	54.8	69.0	50.9
04:45 AM - 04:50 AM	51.7	68.7	48.9
04:50 AM - 04:55 AM	50.6	58.4	47.6
04:55 AM - 05:00 AM	51.2	57.0	48.2
05:00 AM - 05:05 AM	50.1	56.9	47.9
05:05 AM - 05:10 AM	50.2	62.5	47.0
05:10 AM - 05:15 AM	49.3	54.9	45.8
05:15 AM - 05:20 AM	50.3	63.3	46.7
05:20 AM - 05:25 AM	52.2	63.2	46.8
05:25 AM - 05:30 AM	52.0	59.8	49.0
05:30 AM - 05:35 AM	53.3	62.0	49.6
05:35 AM - 05:40 AM	50.5	54.5	49.6
05:40 AM - 05:45 AM	52.7	67.8	49.4
05:45 AM - 05:50 AM	50.2	56.3	49.1
05:50 AM - 05:55 AM	50.3	57.7	48.9
05:55 AM - 06:00 AM	52.6	61.8	50.8
06:00 AM - 07:00 AM	52.2	70.1	49.1
07:00 AM - 08:00 AM	53.6	75.7	50.0

Reference Method :

1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek  
Senior Manager

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TESTING  
No.0009

Lot ID: 2478379  
Date Received :Oct 24, 2024  
Date Reported :Oct 31, 2024  
Report No. : 3148735-1

Page 3 of 3



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Sample No. 2478379-2  
Parameter Noise  
Location บริเวณย่านพักอาศัยด้านทิศเหนือใกล้เชิงโครงการ (GPS 47P 0672434, 1560193) (Shut down)  
Measurement Date Oct 20 - 21, 2024  
Measurement by Woravut Deenuk  
Sound Level Meter 00572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	51.7	79.4	46.8
09:00 AM - 10:00 AM	49.0	63.7	44.4
10:00 AM - 11:00 AM	50.8	72.3	45.5
11:00 AM - 12:00 PM	49.0	65.3	44.6
12:00 PM - 01:00 PM	49.8	69.0	44.9
01:00 PM - 02:00 PM	54.6	74.4	45.9
02:00 PM - 03:00 PM	51.0	74.8	46.1
03:00 PM - 04:00 PM	55.3	74.9	49.4
04:00 PM - 05:00 PM	52.4	70.7	49.0
05:00 PM - 06:00 PM	58.0	72.1	54.4
06:00 PM - 07:00 PM	62.4	70.7	59.9
07:00 PM - 08:00 PM	52.2	70.4	49.5
08:00 PM - 09:00 PM	51.9	70.0	49.0
09:00 PM - 10:00 PM	50.4	76.4	46.0
10:00 PM - 10:05 PM	49.5	59.2	45.0
10:05 PM - 10:10 PM	46.5	58.4	44.1
10:10 PM - 10:15 PM	47.5	54.3	44.8
10:15 PM - 10:20 PM	48.0	56.8	46.6
10:20 PM - 10:25 PM	47.7	54.2	45.3
10:25 PM - 10:30 PM	47.8	54.3	45.4
10:30 PM - 10:35 PM	46.8	53.4	45.3
10:35 PM - 10:40 PM	45.5	51.9	43.7
10:40 PM - 10:45 PM	44.9	50.8	43.7
10:45 PM - 10:50 PM	44.4	55.1	43.1
10:50 PM - 10:55 PM	47.8	57.8	44.3
10:55 PM - 11:00 PM	45.3	63.3	43.3
11:00 PM - 11:05 PM	45.4	54.0	43.0
11:05 PM - 11:10 PM	45.5	67.3	42.1
11:10 PM - 11:15 PM	44.6	58.1	42.3
11:15 PM - 11:20 PM	46.8	58.7	43.4
11:20 PM - 11:25 PM	46.7	61.9	44.3
11:25 PM - 11:30 PM	53.2	66.4	44.3
11:30 PM - 11:35 PM	51.2	63.3	43.3
11:35 PM - 11:40 PM	45.9	61.6	43.5
11:40 PM - 11:45 PM	43.8	50.5	43.0
11:45 PM - 11:50 PM	44.9	54.6	42.8
11:50 PM - 11:55 PM	51.3	64.9	43.1
11:55 PM - 12:00 AM	43.6	47.9	42.4
12:00 AM - 12:05 AM	47.5	58.7	42.8
12:05 AM - 12:10 AM	44.7	57.1	42.8

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Kanokkorn Anek  
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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 2478379  
Date Received : Oct 24, 2024  
Date Reported : Oct 31, 2024  
Report No. : 3148736-1

Page 2 of 3

Sample No. 2478379-2  
Parameter Noise  
Location บริเวณด้านฟากอาศัยด้านทิศเหนือใกล้เสียงโครงการ (GPS 47P 0672434, 1560193) (Shut down)  
Measurement Date Oct 20 - 21, 2024  
Measurement by Woravut Deenuk  
Sound Level Meter 00572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:10 AM - 12:15 AM	44.0	50.1	42.9
12:15 AM - 12:20 AM	44.3	53.5	43.0
12:20 AM - 12:25 AM	45.4	56.7	43.2
12:25 AM - 12:30 AM	49.2	60.4	43.2
12:30 AM - 12:35 AM	47.1	61.9	42.8
12:35 AM - 12:40 AM	46.6	61.9	43.5
12:40 AM - 12:45 AM	43.9	52.5	42.8
12:45 AM - 12:50 AM	43.6	57.5	42.3
12:50 AM - 12:55 AM	43.8	48.9	42.4
12:55 AM - 01:00 AM	45.2	62.2	42.9
01:00 AM - 01:05 AM	45.4	60.4	43.1
01:05 AM - 01:10 AM	45.2	55.1	43.4
01:10 AM - 01:15 AM	45.1	57.0	43.4
01:15 AM - 01:20 AM	45.6	58.0	43.0
01:20 AM - 01:25 AM	45.8	55.4	43.1
01:25 AM - 01:30 AM	60.9	65.4	43.4
01:30 AM - 01:35 AM	63.5	65.0	62.8
01:35 AM - 01:40 AM	63.2	64.7	62.5
01:40 AM - 01:45 AM	63.1	65.0	62.1
01:45 AM - 01:50 AM	63.6	65.2	62.7
01:50 AM - 01:55 AM	63.8	66.3	63.1
01:55 AM - 02:00 AM	63.7	65.5	63.0
02:00 AM - 02:05 AM	63.9	65.5	63.2
02:05 AM - 02:10 AM	63.8	65.4	63.1
02:10 AM - 02:15 AM	64.0	65.5	63.4
02:15 AM - 02:20 AM	64.1	65.8	63.3
02:20 AM - 02:25 AM	64.0	65.4	63.4
02:25 AM - 02:30 AM	63.2	65.4	62.1
02:30 AM - 02:35 AM	63.5	65.0	62.9
02:35 AM - 02:40 AM	61.4	64.4	49.3
02:40 AM - 02:45 AM	63.8	67.5	63.0
02:45 AM - 02:50 AM	63.9	65.5	63.1
02:50 AM - 02:55 AM	63.8	66.0	63.1
02:55 AM - 03:00 AM	63.4	65.4	62.7
03:00 AM - 03:05 AM	64.0	65.4	63.4
03:05 AM - 03:10 AM	61.4	68.6	46.8
03:10 AM - 03:15 AM	46.3	56.3	42.9
03:15 AM - 03:20 AM	48.6	65.2	42.8
03:20 AM - 03:25 AM	46.3	57.3	42.1
03:25 AM - 03:30 AM	49.4	59.8	47.7



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 2478379  
Date Received : Oct 24, 2024  
Date Reported : Oct 31, 2024  
Report No. : 3148736-1

Page 3 of 3

Sample No. 2478379-2  
Parameter Noise  
Location บริเวณด้านฟากอาศัยด้านทิศเหนือใกล้เสียงโครงการ (GPS 47P 0672434, 1560193) (Shut down)  
Measurement Date Oct 20 - 21, 2024  
Measurement by Woravut Deenuk  
Sound Level Meter 00572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:30 AM - 03:35 AM	62.2	64.7	48.9
03:35 AM - 03:40 AM	62.5	64.2	61.7
03:40 AM - 03:45 AM	62.1	63.6	61.5
03:45 AM - 03:50 AM	62.4	63.8	61.9
03:50 AM - 03:55 AM	62.4	63.6	61.9
03:55 AM - 04:00 AM	58.9	65.7	50.1
04:00 AM - 04:05 AM	62.7	67.7	61.8
04:05 AM - 04:10 AM	48.1	59.0	44.5
04:10 AM - 04:15 AM	46.9	53.4	44.4
04:15 AM - 04:20 AM	47.1	52.8	44.3
04:20 AM - 04:25 AM	48.8	51.3	47.8
04:25 AM - 04:30 AM	47.8	52.0	46.0
04:30 AM - 04:35 AM	51.5	74.6	43.2
04:35 AM - 04:40 AM	50.9	63.1	43.5
04:40 AM - 04:45 AM	45.6	52.6	43.6
04:45 AM - 04:50 AM	44.4	50.0	43.2
04:50 AM - 04:55 AM	44.8	50.3	43.1
04:55 AM - 05:00 AM	46.8	54.5	44.6
05:00 AM - 05:05 AM	46.9	53.5	45.5
05:05 AM - 05:10 AM	45.8	49.6	44.9
05:10 AM - 05:15 AM	48.1	60.0	45.4
05:15 AM - 05:20 AM	51.0	63.5	45.6
05:20 AM - 05:25 AM	47.9	60.2	45.3
05:25 AM - 05:30 AM	49.9	61.0	45.9
05:30 AM - 05:35 AM	46.6	50.8	45.1
05:35 AM - 05:40 AM	48.1	62.4	45.2
05:40 AM - 05:45 AM	46.5	60.6	44.8
05:45 AM - 05:50 AM	48.9	62.7	46.1
05:50 AM - 05:55 AM	53.4	77.8	47.6
05:55 AM - 06:00 AM	53.1	71.9	48.9
06:00 AM - 07:00 AM	51.0	72.7	47.0
07:00 AM - 08:00 AM	51.6	70.5	47.3

### Reference Method :

- In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Senior Manager

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Approved by

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Sample No. 2478378-1  
Parameter เสียงรบกวน  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434,1560112)  
Measurement Date Oct 21 - 22, 2024  
Measurement by Thaneeuan Sriwasut  
Sound Level Meter 00572565



TESTING  
No.0009

Lot ID: 2478378  
Date Received :Oct 24, 2024  
Date Reported :Oct 31, 2024  
Report Number : 3148731-1

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
08:00 AM - 09:00 AM	52.2	52.7	n/a	-	50.0	-
09:00 AM - 10:00 AM	51.2	52.7	n/a	-	50.0	-
10:00 AM - 11:00 AM	50.6	52.7	n/a	-	50.0	-
11:00 AM - 12:00 PM	51.2	52.7	n/a	-	50.0	-
12:00 PM - 01:00 PM	50.1	52.7	n/a	-	50.0	-
01:00 PM - 02:00 PM	50.2	52.7	n/a	-	50.0	-
02:00 PM - 03:00 PM	51.2	52.7	n/a	-	50.0	-
03:00 PM - 04:00 PM	50.1	52.7	n/a	-	50.0	-
04:00 PM - 05:00 PM	51.2	52.7	n/a	-	50.0	-
05:00 PM - 06:00 PM	51.8	52.7	n/a	-	50.0	-
06:00 PM - 07:00 PM	55.1	52.7	51.4	-	50.0	1.4
07:00 PM - 08:00 PM	55.4	52.7	52.1	-	50.0	2.1
08:00 PM - 09:00 PM	55.3	52.7	51.8	-	50.0	1.8
09:00 PM - 10:00 PM	56.2	52.7	53.6	-	50.0	3.6
10:00 PM - 10:05 PM	53.8	52.7	-	50.3	49.4	0.9
10:05 PM - 10:10 PM	54.3	52.7	-	52.2	49.4	2.8
10:10 PM - 10:15 PM	52.9	52.7	-	42.4	49.4	-7.0
10:15 PM - 10:20 PM	51.0	52.7	-	n/a	49.4	-
10:20 PM - 10:25 PM	53.3	52.7	-	47.4	49.4	-2.0
10:25 PM - 10:30 PM	52.0	52.7	-	n/a	49.4	-
10:30 PM - 10:35 PM	53.1	52.7	-	45.5	49.4	-3.9
10:35 PM - 10:40 PM	52.9	52.7	-	42.4	49.4	-7.0
10:40 PM - 10:45 PM	51.3	52.7	-	n/a	49.4	-
10:45 PM - 10:50 PM	52.8	52.7	-	39.4	49.4	-10.0
10:50 PM - 10:55 PM	52.4	52.7	-	n/a	49.4	-
10:55 PM - 11:00 PM	53.7	52.7	-	49.8	49.4	0.4
11:00 PM - 11:05 PM	56.6	52.7	-	57.3	49.4	7.9
11:05 PM - 11:10 PM	57.1	52.7	-	58.1	49.4	8.7
11:10 PM - 11:15 PM	52.1	52.7	-	n/a	49.4	-
11:15 PM - 11:20 PM	53.4	52.7	-	48.1	49.4	-1.3
11:20 PM - 11:25 PM	54.0	52.7	-	51.1	49.4	1.7
11:25 PM - 11:30 PM	52.7	52.7	-	n/a	49.4	-
11:30 PM - 11:35 PM	51.2	52.7	-	n/a	49.4	-
11:35 PM - 11:40 PM	50.5	52.7	-	n/a	49.4	-
11:40 PM - 11:45 PM	52.6	52.7	-	n/a	49.4	-
11:45 PM - 11:50 PM	52.1	52.7	-	n/a	49.4	-
11:50 PM - 11:55 PM	50.5	52.7	-	n/a	49.4	-
11:55 PM - 12:00 AM	50.9	52.7	-	n/a	49.4	-
12:00 AM - 12:05 AM	51.8	52.7	-	n/a	49.4	-
12:05 AM - 12:10 AM	51.4	52.7	-	n/a	49.4	-

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*Kanok Korn Anek*

Kanok Korn Anek  
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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Sample No. 2478378-1  
Parameter เสียงรบกวน  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434,1560112)  
Measurement Date Oct 21 - 22, 2024  
Measurement by Thaneeuan Sriwasut  
Sound Level Meter 00572565



TESTING  
No.0009

Lot ID: 2478378  
Date Received :Oct 24, 2024  
Date Reported :Oct 31, 2024  
Report Number : 3148731-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:10 AM - 12:15 AM	50.6	52.7	-	n/a	49.4	-
12:15 AM - 12:20 AM	52.7	52.7	-	n/a	49.4	-
12:20 AM - 12:25 AM	51.9	52.7	-	n/a	49.4	-
12:25 AM - 12:30 AM	51.4	52.7	-	n/a	49.4	-
12:30 AM - 12:35 AM	50.7	52.7	-	n/a	49.4	-
12:35 AM - 12:40 AM	52.4	52.7	-	n/a	49.4	-
12:40 AM - 12:45 AM	50.3	52.7	-	n/a	49.4	-
12:45 AM - 12:50 AM	48.3	52.7	-	n/a	49.4	-
12:50 AM - 12:55 AM	52.2	52.7	-	n/a	49.4	-
12:55 AM - 01:00 AM	51.6	52.7	-	n/a	49.4	-
01:00 AM - 01:05 AM	50.0	52.7	-	n/a	49.4	-
01:05 AM - 01:10 AM	48.7	52.7	-	n/a	49.4	-
01:10 AM - 01:15 AM	50.8	52.7	-	n/a	49.4	-
01:15 AM - 01:20 AM	52.5	52.7	-	n/a	49.4	-
01:20 AM - 01:25 AM	49.0	52.7	-	n/a	49.4	-
01:25 AM - 01:30 AM	50.5	52.7	-	n/a	49.4	-
01:30 AM - 01:35 AM	50.4	52.7	-	n/a	49.4	-
01:35 AM - 01:40 AM	52.0	52.7	-	n/a	49.4	-
01:40 AM - 01:45 AM	49.8	52.7	-	n/a	49.4	-
01:45 AM - 01:50 AM	48.4	52.7	-	n/a	49.4	-
01:50 AM - 01:55 AM	52.1	52.7	-	n/a	49.4	-
01:55 AM - 02:00 AM	49.1	52.7	-	n/a	49.4	-
02:00 AM - 02:05 AM	50.4	52.7	-	n/a	49.4	-
02:05 AM - 02:10 AM	52.1	52.7	-	n/a	49.4	-
02:10 AM - 02:15 AM	60.7	52.7	-	63.0	49.4	13.6
02:15 AM - 02:20 AM	49.1	52.7	-	n/a	49.4	-
02:20 AM - 02:25 AM	51.9	52.7	-	n/a	49.4	-
02:25 AM - 02:30 AM	48.6	52.7	-	n/a	49.4	-
02:30 AM - 02:35 AM	50.9	52.7	-	n/a	49.4	-
02:35 AM - 02:40 AM	48.9	52.7	-	n/a	49.4	-
02:40 AM - 02:45 AM	50.1	52.7	-	n/a	49.4	-
02:45 AM - 02:50 AM	51.0	52.7	-	n/a	49.4	-
02:50 AM - 02:55 AM	48.0	52.7	-	n/a	49.4	-
02:55 AM - 03:00 AM	51.5	52.7	-	n/a	49.4	-
03:00 AM - 03:05 AM	50.8	52.7	-	n/a	49.4	-
03:05 AM - 03:10 AM	48.0	52.7	-	n/a	49.4	-
03:10 AM - 03:15 AM	50.2	52.7	-	n/a	49.4	-
03:15 AM - 03:20 AM	49.9	52.7	-	n/a	49.4	-
03:20 AM - 03:25 AM	51.2	52.7	-	n/a	49.4	-
03:25 AM - 03:30 AM	51.0	52.7	-	n/a	49.4	-

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Approved by

*Kanok Korn Anek*

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## Analysis / Test Report



TESTING  
No.0009

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Lot ID: 2478378  
Date Received : Oct 24, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3148731-1

Page 3 of 3

Sample No. 2478378-1  
Parameter เสียงรบกวน  
Location บริเวณพื้นที่โครงการ (GPS 47P 0672434, 1560112)  
Measurement Date Oct 21 - 22, 2024  
Measurement by Thaneeuan Sriwasut  
Sound Level Meter 00572565

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:30 AM - 03:35 AM	48.5	52.7	-	n/a	49.4	-
03:35 AM - 03:40 AM	48.6	52.7	-	n/a	49.4	-
03:40 AM - 03:45 AM	51.6	52.7	-	n/a	49.4	-
03:45 AM - 03:50 AM	50.7	52.7	-	n/a	49.4	-
03:50 AM - 03:55 AM	48.0	52.7	-	n/a	49.4	-
03:55 AM - 04:00 AM	49.3	52.7	-	n/a	49.4	-
04:00 AM - 04:05 AM	49.1	52.7	-	n/a	49.4	-
04:05 AM - 04:10 AM	50.5	52.7	-	n/a	49.4	-
04:10 AM - 04:15 AM	49.2	52.7	-	n/a	49.4	-
04:15 AM - 04:20 AM	48.5	52.7	-	n/a	49.4	-
04:20 AM - 04:25 AM	53.8	52.7	-	50.3	49.4	0.9
04:25 AM - 04:30 AM	73.4	52.7	-	76.4	49.4	27.0
04:30 AM - 04:35 AM	74.8	52.7	-	77.8	49.4	28.4
04:35 AM - 04:40 AM	73.6	52.7	-	76.6	49.4	27.2
04:40 AM - 04:45 AM	64.7	52.7	-	67.4	49.4	18.0
04:45 AM - 04:50 AM	59.1	52.7	-	61.0	49.4	11.6
04:50 AM - 04:55 AM	56.2	52.7	-	56.6	49.4	7.2
04:55 AM - 05:00 AM	54.6	52.7	-	53.1	49.4	3.7
05:00 AM - 05:05 AM	67.1	52.7	-	69.9	49.4	20.5
05:05 AM - 05:10 AM	57.2	52.7	-	58.3	49.4	8.9
05:10 AM - 05:15 AM	54.3	52.7	-	52.2	49.4	2.8
05:15 AM - 05:20 AM	55.5	52.7	-	55.3	49.4	5.9
05:20 AM - 05:25 AM	54.9	52.7	-	53.9	49.4	4.5
05:25 AM - 05:30 AM	51.4	52.7	-	n/a	49.4	-
05:30 AM - 05:35 AM	51.2	52.7	-	n/a	49.4	-
05:35 AM - 05:40 AM	53.1	52.7	-	45.5	49.4	-3.9
05:40 AM - 05:45 AM	53.6	52.7	-	49.3	49.4	-0.1
05:45 AM - 05:50 AM	55.8	52.7	-	55.9	49.4	6.5
05:50 AM - 05:55 AM	50.6	52.7	-	n/a	49.4	-
05:55 AM - 06:00 AM	51.0	52.7	-	n/a	49.4	-
06:00 AM - 07:00 AM	54.5	52.7	49.8	-	50.0	-0.2
07:00 AM - 08:00 AM	54.2	52.7	48.9	-	50.0	-1.1
ค่ามาตรฐาน						≤ 10

Reference Method :  
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017  
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน  
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548  
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานระดับเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิจารณาตรวจวัด วันที่ 21-22 ตุลาคม 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2478379-1) วันที่ตรวจวัด 20-21 ตุลาคม 2567
- ก/ว: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

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## Analysis / Test Report



TESTING  
No.0009

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Lot ID: 2478378  
Date Received : Oct 24, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3148732-1

Page 1 of 3

Sample No. 2478378-2  
Parameter เสียงรบกวน  
Location บริเวณพื้นที่ก่อสร้างตึกหน้าตึกเดิมโครงการ (GPS 47P 0672434, 1560193)  
Measurement Date Oct 21 - 22, 2024  
Measurement by Thaneeuan Sriwasut  
Sound Level Meter 00572562

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
08:00 AM - 09:00 AM	50.3	51.7	n/a	-	46.8	-
09:00 AM - 10:00 AM	46.7	51.7	n/a	-	46.8	-
10:00 AM - 11:00 AM	49.7	51.7	n/a	-	46.8	-
11:00 AM - 12:00 PM	46.7	51.7	n/a	-	46.8	-
12:00 PM - 01:00 PM	49.4	51.7	n/a	-	46.8	-
01:00 PM - 02:00 PM	48.0	51.7	n/a	-	46.8	-
02:00 PM - 03:00 PM	48.8	51.7	n/a	-	46.8	-
03:00 PM - 04:00 PM	48.3	51.7	n/a	-	46.8	-
04:00 PM - 05:00 PM	65.3	51.7	65.1	-	46.8	18.3
05:00 PM - 06:00 PM	52.5	51.7	44.8	-	46.8	-2.0
06:00 PM - 07:00 PM	50.8	51.7	n/a	-	46.8	-
07:00 PM - 08:00 PM	49.3	51.7	n/a	-	46.8	-
08:00 PM - 09:00 PM	49.5	51.7	n/a	-	46.8	-
09:00 PM - 10:00 PM	61.4	51.7	60.9	-	46.8	14.1
10:00 PM - 10:05 PM	66.3	46.8	-	69.3	44.6	24.7
10:05 PM - 10:10 PM	63.0	46.8	-	65.9	44.6	21.3
10:10 PM - 10:15 PM	46.0	46.8	-	n/a	44.6	-
10:15 PM - 10:20 PM	50.4	46.8	-	50.9	44.6	6.3
10:20 PM - 10:25 PM	52.7	46.8	-	54.4	44.6	9.8
10:25 PM - 10:30 PM	52.7	46.8	-	54.4	44.6	9.8
10:30 PM - 10:35 PM	52.9	46.8	-	54.7	44.6	10.1
10:35 PM - 10:40 PM	52.4	46.8	-	54.0	44.6	9.4
10:40 PM - 10:45 PM	52.9	46.8	-	54.7	44.6	10.1
10:45 PM - 10:50 PM	52.9	46.8	-	54.7	44.6	10.1
10:50 PM - 10:55 PM	53.0	46.8	-	54.8	44.6	10.2
10:55 PM - 11:00 PM	53.1	46.8	-	54.9	44.6	10.3
11:00 PM - 11:05 PM	55.6	46.8	-	58.0	44.6	13.4
11:05 PM - 11:10 PM	53.0	46.8	-	54.8	44.6	10.2
11:10 PM - 11:15 PM	53.5	46.8	-	55.5	44.6	10.9
11:15 PM - 11:20 PM	53.5	46.8	-	55.5	44.6	10.9
11:20 PM - 11:25 PM	53.1	46.8	-	54.9	44.6	10.3
11:25 PM - 11:30 PM	54.1	46.8	-	56.2	44.6	11.6
11:30 PM - 11:35 PM	52.8	46.8	-	54.5	44.6	9.9
11:35 PM - 11:40 PM	52.7	46.8	-	54.4	44.6	9.8
11:40 PM - 11:45 PM	53.7	46.8	-	55.7	44.6	11.1
11:45 PM - 11:50 PM	52.5	46.8	-	54.1	44.6	9.5
11:50 PM - 11:55 PM	53.2	46.8	-	55.1	44.6	10.5
11:55 PM - 12:00 AM	52.1	46.8	-	53.6	44.6	9.0
12:00 AM - 12:05 AM	52.4	46.8	-	54.0	44.6	9.4
12:05 AM - 12:10 AM	52.3	46.8	-	53.9	44.6	9.3

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 2478378  
Date Received :Oct 24, 2024  
Date Reported :Oct 31, 2024  
Report Number : 3148732-1

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Sample No. 2478378-2  
Parameter เสียงรบกวน  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เคียงโครงการ (GPS 47P 0672434, 1560193)  
Measurement Date Oct 21 - 22, 2024  
Measurement by Thanuesan Sriwasut  
Sound Level Meter 00572552

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:10 AM - 12:15 AM	53.0	46.8	-	54.8	44.6	10.2
12:15 AM - 12:20 AM	46.1	46.8	-	n/a	44.6	-
12:20 AM - 12:25 AM	43.7	46.8	-	n/a	44.6	-
12:25 AM - 12:30 AM	44.7	46.8	-	n/a	44.6	-
12:30 AM - 12:35 AM	45.2	46.8	-	n/a	44.6	-
12:35 AM - 12:40 AM	46.6	46.8	-	n/a	44.6	-
12:40 AM - 12:45 AM	48.8	46.8	-	47.5	44.6	2.9
12:45 AM - 12:50 AM	51.9	46.8	-	53.3	44.6	8.7
12:50 AM - 12:55 AM	64.2	46.8	-	67.1	44.6	22.5
12:55 AM - 01:00 AM	66.0	46.8	-	68.9	44.6	24.3
01:00 AM - 01:05 AM	66.1	46.8	-	69.0	44.6	24.4
01:05 AM - 01:10 AM	66.0	46.8	-	68.9	44.6	24.3
01:10 AM - 01:15 AM	63.0	46.8	-	65.9	44.6	21.3
01:15 AM - 01:20 AM	65.0	46.8	-	67.9	44.6	23.3
01:20 AM - 01:25 AM	65.4	46.8	-	68.3	44.6	23.7
01:25 AM - 01:30 AM	65.1	46.8	-	68.0	44.6	23.4
01:30 AM - 01:35 AM	57.2	46.8	-	59.8	44.6	15.2
01:35 AM - 01:40 AM	43.1	46.8	-	n/a	44.6	-
01:40 AM - 01:45 AM	42.8	46.8	-	n/a	44.6	-
01:45 AM - 01:50 AM	44.6	46.8	-	n/a	44.6	-
01:50 AM - 01:55 AM	45.0	46.8	-	n/a	44.6	-
01:55 AM - 02:00 AM	46.6	46.8	-	n/a	44.6	-
02:00 AM - 02:05 AM	49.1	46.8	-	48.2	44.6	3.6
02:05 AM - 02:10 AM	63.5	46.8	-	66.4	44.6	21.8
02:10 AM - 02:15 AM	65.6	46.8	-	68.5	44.6	23.9
02:15 AM - 02:20 AM	65.1	46.8	-	68.0	44.6	23.4
02:20 AM - 02:25 AM	64.7	46.8	-	67.6	44.6	23.0
02:25 AM - 02:30 AM	64.9	46.8	-	67.8	44.6	23.2
02:30 AM - 02:35 AM	64.7	46.8	-	67.6	44.6	23.0
02:35 AM - 02:40 AM	61.6	46.8	-	64.5	44.6	19.9
02:40 AM - 02:45 AM	43.7	46.8	-	n/a	44.6	-
02:45 AM - 02:50 AM	42.8	46.8	-	n/a	44.6	-
02:50 AM - 02:55 AM	46.4	46.8	-	n/a	44.6	-
02:55 AM - 03:00 AM	62.7	46.8	-	65.6	44.6	21.0
03:00 AM - 03:05 AM	66.1	46.8	-	69.0	44.6	24.4
03:05 AM - 03:10 AM	61.2	46.8	-	64.0	44.6	19.4
03:10 AM - 03:15 AM	64.7	46.8	-	67.6	44.6	23.0
03:15 AM - 03:20 AM	53.9	46.8	-	56.0	44.6	11.4
03:20 AM - 03:25 AM	45.0	46.8	-	n/a	44.6	-
03:25 AM - 03:30 AM	44.1	46.8	-	n/a	44.6	-

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## Analysis / Test Report



TESTING  
No.0009

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009  
Project Name :  
Project Location :

Sample No. 2478378-2  
Parameter เสียงรบกวน  
Location บริเวณบ้านพักอาศัยด้านทิศเหนือใกล้เคียงโครงการ (GPS 47P 0672434, 1560193)  
Measurement Date Oct 21 - 22, 2024  
Measurement by Thanuesan Sriwasut  
Sound Level Meter 00572552

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:30 AM - 03:35 AM	44.1	46.8	-	n/a	44.6	-
03:35 AM - 03:40 AM	43.5	46.8	-	n/a	44.6	-
03:40 AM - 03:45 AM	44.2	46.8	-	n/a	44.6	-
03:45 AM - 03:50 AM	44.1	46.8	-	n/a	44.6	-
03:50 AM - 03:55 AM	44.9	46.8	-	n/a	44.6	-
03:55 AM - 04:00 AM	44.4	46.8	-	n/a	44.6	-
04:00 AM - 04:05 AM	44.3	46.8	-	n/a	44.6	-
04:05 AM - 04:10 AM	45.2	46.8	-	n/a	44.6	-
04:10 AM - 04:15 AM	45.4	46.8	-	n/a	44.6	-
04:15 AM - 04:20 AM	43.5	46.8	-	n/a	44.6	-
04:20 AM - 04:25 AM	69.9	46.8	-	72.9	44.6	28.3
04:25 AM - 04:30 AM	76.6	46.8	-	79.6	44.6	35.0
04:30 AM - 04:35 AM	75.8	46.8	-	78.8	44.6	34.2
04:35 AM - 04:40 AM	66.8	46.8	-	69.8	44.6	25.2
04:40 AM - 04:45 AM	59.5	46.8	-	62.3	44.6	17.7
04:45 AM - 04:50 AM	55.5	46.8	-	57.9	44.6	13.3
04:50 AM - 04:55 AM	48.7	46.8	-	47.2	44.6	2.6
04:55 AM - 05:00 AM	48.9	46.8	-	47.7	44.6	3.1
05:00 AM - 05:05 AM	54.7	46.8	-	56.9	44.6	12.3
05:05 AM - 05:10 AM	48.5	46.8	-	46.6	44.6	2.0
05:10 AM - 05:15 AM	50.4	46.8	-	50.9	44.6	6.3
05:15 AM - 05:20 AM	53.1	46.8	-	54.9	44.6	10.3
05:20 AM - 05:25 AM	48.8	46.8	-	47.5	44.6	2.9
05:25 AM - 05:30 AM	45.4	46.8	-	n/a	44.6	-
05:30 AM - 05:35 AM	46.6	46.8	-	n/a	44.6	-
05:35 AM - 05:40 AM	46.5	46.8	-	n/a	44.6	-
05:40 AM - 05:45 AM	48.0	46.8	-	44.8	44.6	0.2
05:45 AM - 05:50 AM	53.5	46.8	-	55.5	44.6	10.9
05:50 AM - 05:55 AM	51.2	46.8	-	52.2	44.6	7.6
05:55 AM - 06:00 AM	51.8	46.8	-	53.1	44.6	8.5
06:00 AM - 07:00 AM	51.5	51.7	n/a	-	46.8	-
07:00 AM - 08:00 AM	51.2	51.7	n/a	-	46.8	-

ตามตาราง

≤ 10

Reference Method :

- In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 21-22 ตุลาคม 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2478379-2 วันที่ตรวจวัด 20-21 ตุลาคม 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

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## ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2476355**  
Date Received : Jul 10, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3043939-1

Page 1 of 10

**Sample Number** 2476355-1  
**Sampled Date** Jul 10, 2024 9:27 AM  
**Sample Description** Wastewater  
**Location** อาคารที่ 1 : น้ำเสียโรงงานบำบัด  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	357	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	90.4	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	540	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Khawlaor

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
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Approved by

Suwannee Chumkeaw  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2476355**  
Date Received : Jul 10, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3043939-1

Page 2 of 10

**Sample Number** 2476355-2  
**Sampled Date** Jul 10, 2024 9:25 AM  
**Sample Description** Wastewater  
**Location** อาคารที่ 1 : น้ำเสียภายหลังออกจากโรงบำบัด  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	248	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	72.7	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	438	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Khawlaor

**Remark :**

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** 367-009  
**Project Name :**  
**Project Location :**



**TESTING**  
**No.0009**  
**Lot ID: 2476355**  
**Date Received :** Jul 10, 2024  
**Date Reported :** Jul 17, 2024  
**Report Number :** 3043939-1

Page 3 of 10

<b>Sample Number</b>	2476355-3						
<b>Sampled Date</b>	Jul 10, 2024 9:34 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	อาคารที่ 2 : น้ำเสียเขารวมมาบัต						
<b>Date Analysis Commenced</b>	Jul 11, 2024						
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	242	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	71.6	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	290	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Knowlaor

Remark :

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** 367-009  
**Project Name :**  
**Project Location :**



**TESTING**  
**No.0009**  
**Lot ID: 2476355**  
**Date Received :** Jul 10, 2024  
**Date Reported :** Jul 17, 2024  
**Report Number :** 3043939-1

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<b>Sample Number</b>	2476355-4						
<b>Sampled Date</b>	Jul 10, 2024 9:32 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	อาคารที่ 2 : น้ำเสียภายหลังออกจากกระบวนการบำบัด						
<b>Date Analysis Commenced</b>	Jul 11, 2024						
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	96.7	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	63.9	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	32	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Knowlaor

Remark :

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2476355**  
Date Received : Jul 10, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3043939-1

Page 5 of 10

**Sample Number** 2476355-5  
**Sampled Date** Jul 10, 2024 9:45 AM  
**Sample Description** Wastewater  
**Location** อาคารที่ 3 : นำเสียประมณบนำบัด  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	184	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.3	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	87.5	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	262	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Khawlaor

Remark :

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## Analysis / Test Report

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2476355**  
Date Received : Jul 10, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3043939-1

Page 6 of 10

**Sample Number** 2476355-6  
**Sampled Date** Jul 10, 2024 9:42 AM  
**Sample Description** Wastewater  
**Location** อาคารที่ 3 : นำเสียภายหลังออกจากรบมนำบัด  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	11.7	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Khawlaor

Remark :

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Suwannee Chumkeaw  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
Lot ID: 2476355  
Date Received : Jul 10, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3043939-1

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Sample Number	2476355-7						
Sampled Date	Jul 10, 2024 9:13 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ข้างร้านค้า)						
Date Analysis Commenced	Jul 11, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	35000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.1	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	3	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	8.1	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Khowlao

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## Analysis / Test Report

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
Lot ID: 2476355  
Date Received : Jul 10, 2024  
Date Reported : Jul 17, 2024  
Report Number : 3043939-1

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## Analysis / Test Report



TESTING  
No.0009

**Lot ID: 2476355**

Date Received : Jul 10, 2024

Date Reported : Jul 17, 2024

Report Number : 3043939-1

**Client :** Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

**P/O :** J67-009

**Project Name :**

**Project Location :**

**Sample Number** 2476355-8  
**Sampled Date** Jul 10, 2024 9:17 AM  
**Sample Description** Wastewater  
**Location** แปลงน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ฆ่าล้างจอตต)  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Page 9 of 10

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	11000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	64.1	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	8	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	56.2	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	41	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Jiranat Khowlaor

Remark :

- LOD : Limit of Detection
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Section Head

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## Analysis / Test Report



TESTING  
No.0009

**Lot ID: 2476355**

Date Received : Jul 10, 2024

Date Reported : Jul 17, 2024

Report Number : 3043939-1

**Client :** Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

**P/O :** J67-009

**Project Name :**

**Project Location :**

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Page 10 of 10

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	11000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	64.1	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	8	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	56.2	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	41	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location:



TESTING  
No.0009  
Lot ID: 2487154  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

Page 1 of 10

Sample Number	2487154-1
Sampled Date	Aug 14, 2024 12:25 PM
Sample Description	Wastewater
Location	อาคารที่ 1 : น้ำเสียเขารวมบ่อบำบัด
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	1398	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	201	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	3380	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Aittipon Yaso

#### Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location:



TESTING  
No.0009  
Lot ID: 2487154  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

Page 2 of 10

Sample Number	2487154-2
Sampled Date	Aug 14, 2024 12:20 PM
Sample Description	Wastewater
Location	อาคารที่ 1 : น้ำเสียภายหลังออกจากระบบบำบัด
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	57.9	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	20.6	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	475	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Aittipon Yaso

#### Remark :

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : 367-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

Page 3 of 10

Sample Number	2487154-3
Sampled Date	Aug 14, 2024 12:35 PM
Sample Description	Wastewater
Location	อาคารที่ 2 : น้ำเสียเบรจกรรมบำบัด
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	526	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	207	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	4220	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Aittipon Yaso

Remark :

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : 367-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

Page 4 of 10

Sample Number	2487154-4
Sampled Date	Aug 14, 2024 12:30 PM
Sample Description	Wastewater
Location	อาคารที่ 2 : น้ำเสียภายหลังออกจากกรรมบำบัด
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	93.2	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	61.0	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Aittipon Yaso

Remark :

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**



TESTING  
No.0009

**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

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**Sample Number** 2487154-5  
**Sampled Date** Aug 14, 2024 12:45 PM  
**Sample Description** Wastewater  
**Location** อาคารที่ 3 : น้ำเสียเข้ระบบบำบัด  
**Date Analysis Commenced** Aug 15, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	260	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.3	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	141	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	860	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Aittipon Yaso

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**



TESTING  
No.0009

**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

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**Sample Number** 2487154-6  
**Sampled Date** Aug 14, 2024 12:40 PM  
**Sample Description** Wastewater  
**Location** อาคารที่ 3 : น้ำเสียภายหลังออกจากระบบบำบัด  
**Date Analysis Commenced** Aug 15, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.9	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	8.0	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	10.9	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By :** Aittipon Yaso

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

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**Sample Number** 2487154-7  
**Sampled Date** Aug 14, 2024 12:10 PM  
**Sample Description** Wastewater  
**Location** บ่อพักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ผังข้างโครงการ)  
**Date Analysis Commenced** Aug 15, 2024  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	4900000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	14.2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	17.9	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	112	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline** : Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By** : Aitipon Yaso

Remark :

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Suwannee Chuamkeaw  
Section Head

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## Analysis / Test Report

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999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

Page 8 of 10

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## Analysis / Test Report

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

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**Sample Number** 2487154-B  
**Sampled Date** Aug 14, 2024 12:15 PM  
**Sample Description** Wastewater  
**Location** บ่อพักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ตั้งลานจอดรถ)  
**Date Analysis Commenced** Aug 15, 2024  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	2200000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	74.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	12	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	47.8	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	110	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline** : Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

**Sampling By** : Aittipon Yaso

Remark :

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Project Location :



TESTING  
No.0009  
**Lot ID: 2487154**  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3068634-1

Page 10 of 10

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2498995**  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

Page 1 of 8

Sample Number	2498995-1						
Sampled Date	Sep 12, 2024 1:45 PM						
Sample Description	Wastewater						
Location	อาคารที่ 1 : น้ำเสียแอมระบอบปำมัด						
Date Analysis Commenced	Sep 13, 2024						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	144	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	71.3	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	630	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Wirat Chainara

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Approved by

  
Suwimon Chairuangwut  
Scientist (3)

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2498995**  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

Page 2 of 8

Sample Number	2498995-2						
Sampled Date	Sep 12, 2024 1:40 PM						
Sample Description	Wastewater						
Location	อาคารที่ 1 : น้ำเสียขบวนหลังจากการบำบัด						
Date Analysis Commenced	Sep 13, 2024						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	87.5	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	48.1	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	180	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Wirat Chainara

Remark :

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Approved by

  
Suwimon Chairuangwut  
Scientist (3)

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2498995**  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

Page 3 of 8

**Sample Number** 2498995-3  
**Sampled Date** Sep 12, 2024 1:30 PM  
**Sample Description** Wastewater  
**Location** อาคารที่ 2 : น้ำเสียเข้าระบบบำบัด  
**Date Analysis Commenced** Sep 13, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	185	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	91.3	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	785	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Sampling By :** Wirat Chainara

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Approved by

*Suwimon C.*  
Suwimon Chairuangwut  
Scientist (3)

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P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 2498995**  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

Page 4 of 8

**Sample Number** 2498995-4  
**Sampled Date** Sep 12, 2024 1:35 PM  
**Sample Description** Wastewater  
**Location** อาคารที่ 2 : น้ำเสียภายหลังออกจากระบบบำบัด  
**Date Analysis Commenced** Sep 13, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	97.6	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	56.6	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	48	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Sampling By :** Wirat Chainara

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Approved by

*Suwimon C.*  
Suwimon Chairuangwut  
Scientist (3)

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Project Name :  
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TESTING  
No.0009  
**Lot ID: 2498995**  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

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Sample Number	2498995-5						
Sampled Date	Sep 12, 2024 1:25 PM						
Sample Description	Wastewater						
Location	อาคารที่ 3 : น้ำเสียเข้านระบบบำบัด						
Date Analysis Commenced	Sep 13, 2024						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	162	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	78.0	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	224	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Wirat Chainara

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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**Lot ID: 2498995**  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

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Sample Number	2498995-6						
Sampled Date	Sep 12, 2024 1:20 PM						
Sample Description	Wastewater						
Location	อาคารที่ 3 : น้ำเสียภายหลังออกจากระบบบำบัด						
Date Analysis Commenced	Sep 13, 2024						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	38.7	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	25.9	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	33	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Wirat Chainara

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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Date Reported : Sep 19, 2024  
Report Number : 3093944-1

Page 7 of 6

Sample Number	2498995-7						
Sampled Date	Sep 12, 2024 1:10 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : โรงรถ)						
Date Analysis Commenced	Sep 13, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	2400000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	37.6	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	40.3	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	62	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Wirat Chainara

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
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Approved by

*Suwimon C.*  
Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
Lot ID: 2498995  
Date Received : Sep 12, 2024  
Date Reported : Sep 19, 2024  
Report Number : 3093944-1

Page 8 of 6

Sample Number	2498995-8						
Sampled Date	Sep 12, 2024 1:05 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ร้านค้า)						
Date Analysis Commenced	Sep 13, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	2400000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.4	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	13.4	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Wirat Chainara

Remark :  
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Approved by

*Suwimon C.*  
Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report



TESTING  
No.0009

**Lot ID: 24114345**  
Date Received : Oct 10, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3152409-1

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

<b>Sample Number</b>	24114345-1					
<b>Sampled Date</b>	Oct 10, 2024 10:25 AM					
<b>Sample Description</b>	Wastewater					
<b>Location</b>	อาคารที่ 1 : นำเสียบ่กรบอบบ่บ่บ่					
<b>Date Analysis Commenced</b>	Oct 11, 2024					
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	416	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	6.9	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	82.8	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	1120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Note :** This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

**Sampling By :** Aittipon Yaso

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report



TESTING  
No.0009

**Lot ID: 24114345**  
Date Received : Oct 10, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3152410-1

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

<b>Sample Number</b>	24114345-2					
<b>Sampled Date</b>	Oct 10, 2024 10:20 AM					
<b>Sample Description</b>	Wastewater					
<b>Location</b>	อาคารที่ 1 : นำเสียบ่กรบอบบ่บ่บ่					
<b>Date Analysis Commenced</b>	Oct 11, 2024					
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	162	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	67.5	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	114	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Note :** This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

**Sampling By :** Aittipon Yaso

Remark :

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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 24114345  
Date Received : Oct 10, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3152411-1

Sample Number 24114345-3  
Sampled Date Oct 10, 2024 10:35 AM  
Sample Description Wastewater  
Location อาคารที่ 2 : น้ำเสียภายในโรงงานบำบัด  
Date Analysis Commenced Oct 11, 2024  
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	177	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	67.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	128	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Note : This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

Sampling By : Aittipon Yaso

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Approved by

Siriluk P.  
Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 24114345  
Date Received : Oct 10, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3152412-1

Sample Number 24114345-4  
Sampled Date Oct 10, 2024 10:30 AM  
Sample Description Wastewater  
Location อาคารที่ 2 : น้ำเสียภายในห้องออกจากกระบวนการบำบัด  
Date Analysis Commenced Oct 11, 2024  
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	102	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	52.6	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Note : This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

Sampling By : Aittipon Yaso

Remark :  
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Approved by

Siriluk P.  
Siriluk Bunnak  
Section Head

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## Analysis / Test Report



TESTING  
No.0009

**Lot ID: 24114345**  
Date Received : Oct 10, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3152413-1

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

**Sample Number** 24114345-5  
**Sampled Date** Oct 10, 2024 11:15 AM  
**Sample Description** Wastewater  
**Location** อาคารที่ 3 : นำเสียขบวนรถมาจอด  
**Date Analysis Commenced** Oct 11, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	294	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	81.6	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	220	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Note :** This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

**Sampling By :** Aittipon Yaso

**Remark :**

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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report



TESTING  
No.0009

**Lot ID: 24114345**  
Date Received : Oct 10, 2024  
Date Reported : Oct 31, 2024  
Report Number : 3152414-1

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**

**Sample Number** 24114345-6  
**Sampled Date** Oct 10, 2024 11:00 AM  
**Sample Description** Wastewater  
**Location** อาคารที่ 3 : นำเสียขบวนรถออกจากรถยนต์มาจอด  
**Date Analysis Commenced** Oct 11, 2024  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	13.7	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	3.8	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Note :** This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

**Sampling By :** Aittipon Yaso

**Remark :**

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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :

TESTING  
No.0009  
Lot ID: 24114345  
Date Received : Oct 10, 2024  
Date Reported : Nov 04, 2024  
Report Number : 3152415-1

Sample Number	24114345-7						
Sampled Date	Oct 10, 2024 10:05 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ผังโครงการ)						
Date Analysis Commenced	Oct 11, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	3300000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.2	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	5.5	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Note :** This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

**Sampling By :** Aittipon Yaso

**Remark :**

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Approved by

Suwannee Chuamkeaw  
Section Head

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :

TESTING  
No.0009  
Lot ID: 24114345  
Date Received : Oct 10, 2024  
Date Reported : Nov 04, 2024  
Report Number : 3152416-1

Sample Number	24114345-8						
Sampled Date	Oct 10, 2024 10:10 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ผังโรงจลตรถ)						
Date Analysis Commenced	Oct 11, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	4900000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	59.1	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	7	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	36.9	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Note :** This Analysis test report is reissued to supersede report No.3127838-1, Date Reported : Oct 18, 2024 due to revise guideline/specification

**Sampling By :** Aittipon Yaso

**Remark :**

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Suwannee Chuamkeaw  
Section Head

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 24126048

Date Received : Nov 11, 2024

Date Reported : Nov 18, 2024

Report Number : 3169547-1

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Sample Number	24126048-1					
Sampled Date	Nov 11, 2024 12:40 PM					
Sample Description	Wastewater					
Location	อาคารที่ 1 : น้ำเสียเขาระบบบำบัด					
Date Analysis Commenced	Nov 12, 2024					
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Page 1 of 1

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	343	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	70.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	1000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Aittipon Yaso ทะเบียนเลขที่ 7-204-ก-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head

ทะเบียนเลขที่ 7-204-ก-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager

ทะเบียนเลขที่ 7-204-ก-0004

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 24126048

Date Received : Nov 11, 2024

Date Reported : Nov 18, 2024

Report Number : 3169548-1

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Sample Number	24126048-2					
Sampled Date	Nov 11, 2024 12:35 PM					
Sample Description	Wastewater					
Location	อาคารที่ 1 : น้ำเสียหลังห้องออกจากระบบบำบัด					
Date Analysis Commenced	Nov 12, 2024					
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Page 1 of 1

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	144	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	77.9	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	257	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Aittipon Yaso ทะเบียนเลขที่ 7-204-ก-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head

ทะเบียนเลขที่ 7-204-ก-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager

ทะเบียนเลขที่ 7-204-ก-0004

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 24126048  
Date Received : Nov 11, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3169549-1

Sample Number 24126048-3  
Sampled Date Nov 11, 2024 12:50 PM  
Sample Description Wastewater  
Location อาคารที่ 2 : น้ำเสียประปาบำบัด  
Date Analysis Commenced Nov 12, 2024  
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	392	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	40.6	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	540	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Aittipon Yaso ทะเบียนเลขที่ 7-204-ก-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head  
ทะเบียนเลขที่ 7-204-ก-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-ก-0004

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009

Lot ID: 24126048  
Date Received : Nov 11, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3169550-1

Sample Number 24126048-4  
Sampled Date Nov 11, 2024 12:45 PM  
Sample Description Wastewater  
Location อาคารที่ 2 : น้ำเสียประปาบำบัด  
Date Analysis Commenced Nov 12, 2024  
Condition of Sample Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	25.0	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	16.6	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	392	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Aittipon Yaso ทะเบียนเลขที่ 7-204-ก-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head  
ทะเบียนเลขที่ 7-204-ก-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-ก-0004

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 24126048

Date Received : Nov 11, 2024

Date Reported : Nov 18, 2024

Report Number : 3169551-1

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Sample Number	24126048-5
Sampled Date	Nov 11, 2024 1:05 PM
Sample Description	Wastewater
Location	อาคารที่ 3 : น้ำเสียหลังออกจากรอบบ่อบำบัด
Date Analysis Commenced	Nov 12, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	166	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	112	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	306	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Aittipon Yaso ทะเบียนเลขที่ ๖-204-๖-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head

ทะเบียนเลขที่ ๖-204-๖-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager

ทะเบียนเลขที่ ๖-204-๖-0004

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 24126048

Date Received : Nov 11, 2024

Date Reported : Nov 18, 2024

Report Number : 3169552-1

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Sample Number	24126048-6
Sampled Date	Nov 11, 2024 1:00 PM
Sample Description	Wastewater
Location	อาคารที่ 3 : น้ำเสียภายหลังออกจากรอบบ่อบำบัด
Date Analysis Commenced	Nov 12, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.1	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	5.8	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Aittipon Yaso ทะเบียนเลขที่ ๖-204-๖-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head

ทะเบียนเลขที่ ๖-204-๖-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager

ทะเบียนเลขที่ ๖-204-๖-0004

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
Lot ID: 24126048  
Date Received : Nov 11, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3169553-1

Page 1 of 1

Sample Number	24126048-7						
Sampled Date	Nov 11, 2024 12:25 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : สิ่งโรงจลตรก)						
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	18.2	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	45.2	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.  
Sampling By : Aitipon Yaso ทะเบียนเลขที่ 7-204-จ-0059

Remark :  
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\* The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head  
ทะเบียนเลขที่ 7-204-จ-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-จ-0004

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
Lot ID: 24126048  
Date Received : Nov 11, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3169553-2

Page 1 of 1

Sample Number	24126048-7						
Sampled Date	Nov 11, 2024 12:25 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : สิ่งโรงจลตรก)						
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	MPN/100mL	-	-	3300000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.  
Sampling By : Aitipon Yaso

Remark :  
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Approved by

Tuanjai Thangklang

Tuanjai Thangklang  
Manager

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 24126048**  
Date Received : Nov 11, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3169554-1

Page 1 of 1

Sample Number	24126048-8						
Sampled Date	Nov 11, 2024 12:15 PM						
Sample Description	Wastewater						
Location	บ่อพักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ผังโครงการ)						
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.8	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	4	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	9.5	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Aittipon Yaso ทะเบียนเลขที่ 7-204-จ-0059

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Technical Management

Siriluk P.

Siriluk Bunnak  
Section Head  
ทะเบียนเลขที่ 7-204-จ-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-ก-0004

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 24126048**  
Date Received : Nov 11, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3169554-2

Page 1 of 1

Sample Number	24126048-8						
Sampled Date	Nov 11, 2024 12:15 PM						
Sample Description	Wastewater						
Location	บ่อพักน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ผังโครงการ)						
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	1300000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Aittipon Yaso

### Remark :

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Approved by

Tuanjai Thangklang

Tuanjai Thangklang  
Manager

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 24132386

Date Received : Dec 12, 2024

Date Reported : Dec 19, 2024

Report Number : 3197478-1

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Sample Number	24132386-1					
Sampled Date	Dec 12, 2024 9:52 AM					
Sample Description	Wastewater					
Location	อาคารที่ 1 : น้ำเสียเขารวมบ่อบำบัด					
Date Analysis Commenced	Dec 13, 2024					
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	249	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	47.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	55	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Chawanthat Nakpanom

Remark :

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report



TESTING  
No.0009

Lot ID: 24132386

Date Received : Dec 12, 2024

Date Reported : Dec 19, 2024

Report Number : 3197479-1

Client : Nava Nakorn Public Company Limited

999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120

P/O : J67-009

Project Name :

Project Location :

Sample Number	24132386-2					
Sampled Date	Dec 12, 2024 9:48 AM					
Sample Description	Wastewater					
Location	อาคารที่ 1 : น้ำเสียภายหลังออกจากกระบวนการบำบัด					
Date Analysis Commenced	Dec 13, 2024					
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	205	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	72.3	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	146	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Chawanthat Nakpanom

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :

TESTING  
No.0009  
Lot ID: 24132386  
Date Received :Dec 12, 2024  
Date Reported :Dec 19, 2024  
Report Number :3197480-1

Page 1 of 1

Sample Number	24132386-3
Sampled Date	Dec 12, 2024 9:55 AM
Sample Description	Wastewater
Location	อาคารที่ 2 : น้ำเสียประมณบำบัด
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	293	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	8.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	82.7	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	272	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Chawanthat Nakpanom

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :

TESTING  
No.0009  
Lot ID: 24132386  
Date Received : Dec 12, 2024  
Date Reported : Dec 19, 2024  
Report Number : 3197481-1

Page 1 of 1

Sample Number	24132386-4
Sampled Date	Dec 12, 2024 10:00 AM
Sample Description	Wastewater
Location	อาคารที่ 2 : น้ำเสียภายหลังออกจากกระบวนการบำบัด
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	127	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	67.9	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Chawanthat Nakpanom

Remark :

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**



TESTING  
No.0009

**Lot ID: 24132386**  
Date Received : Dec 12, 2024  
Date Reported : Dec 19, 2024  
Report Number : 3197482-1

Page 1 of 1

Sample Number	24132386-5					
Sampled Date	Dec 12, 2024 10:10 AM					
Sample Description	Wastewater					
Location	อาคารที่ 3 : น้ำเสียเข้ระบบบำบัด					
Date Analysis Commenced	Dec 13, 2024					
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	52.4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	7.8	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	80.9	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	89	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Sampling By :** Chawanthat Nakpanom

Remark :  
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Approved by

*Suwimon C.*  
Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

**Client :** Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
**P/O :** J67-009  
**Project Name :**  
**Project Location :**



TESTING  
No.0009

**Lot ID: 24132386**  
Date Received : Dec 12, 2024  
Date Reported : Dec 19, 2024  
Report Number : 3197483-1

Page 1 of 1

Sample Number	24132386-6					
Sampled Date	Dec 12, 2024 10:05 AM					
Sample Description	Wastewater					
Location	อาคารที่ 3 : น้ำเสียภายหลังออกจากระบบบำบัด					
Date Analysis Commenced	Dec 13, 2024					
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	30.2	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	22.8	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	66	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

**Sampling By :** Chawanthat Nakpanom

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Suwimon Chairuangwut  
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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 24132386**  
Date Received : Dec 12, 2024  
Date Reported : Dec 19, 2024  
Report Number : 3197484-1

Page 1 of 1

Sample Number	24132386-7						
Sampled Date	Dec 12, 2024 9:35 AM						
Sample Description	Wastewater						
Location	ปล่อยน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : รั้วหน้า)						
Date Analysis Commenced	Dec 13, 2024						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	13000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.7	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	31.2	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Chawanthat Nakpanom

Remark :

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Approved by

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## Analysis / Test Report

Client : Nava Nakorn Public Company Limited  
999 Moo 13, Phaholyothin Road, Klong 1, Klongluang, Pathumthani Thailand 12120  
P/O : J67-009  
Project Name :  
Project Location :



TESTING  
No.0009  
**Lot ID: 24132386**  
Date Received : Dec 12, 2024  
Date Reported : Dec 19, 2024  
Report Number : 3197485-1

Page 1 of 1

Sample Number	24132386-8						
Sampled Date	Dec 12, 2024 9:40 AM						
Sample Description	Wastewater						
Location	ปล่อยน้ำทิ้งสุดท้ายก่อนระบายออกภายนอกโครงการ (Plan : ลานจอดรถ)						
Date Analysis Commenced	Dec 13, 2024						
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	7000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	110	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	5	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	69.4	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	104	≤30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Chawanthat Nakpanom

Remark :

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