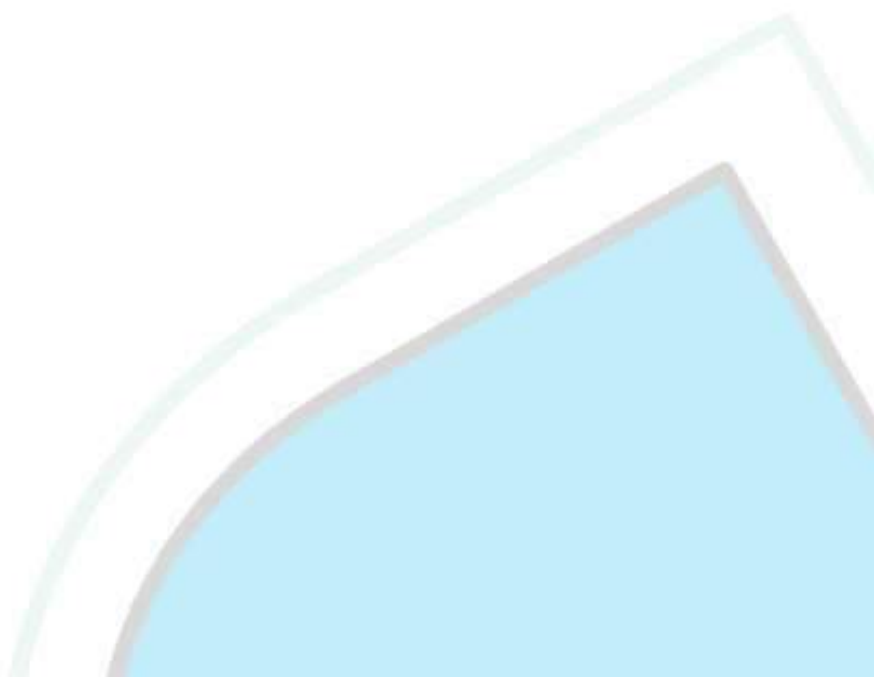
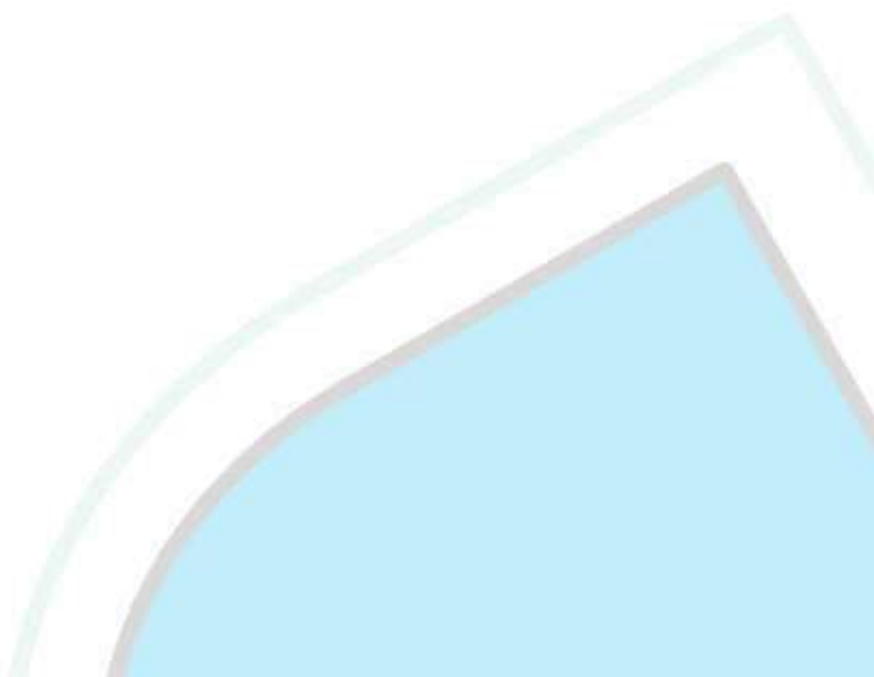


**ภาคผนวก ณ**  
**ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม**



## ภาคผนวก ณ-1

ผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ





## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPES (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CP-CPB JONT VENTURE  
**ADDRESS** : 355 BANG KONG 11TH FLOOR, PHANUWOTHIN ROAD, CHATUCHAK DISTRICT BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 02-264 3833 Fax: 02-264 3834 Email: lae@lueae.com  
**SAMPLING SOURCE** : CHATUCHAK DISTRICT  
**SAMPLING DATE** : MARCH 27, 2024  
**SAMPLING TIME** : 10:30 AM  
**SAMPLING BY** : MR. SUPANON SUWASEE  
**ANALYZED BY** : MISS JETWATHIN TUNSA-AT

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
TOTAL SUSPENDED PARTICULATE MATTER (TSP)	µg/m³	GRAVIMETRIC HIGH VOLUME METHOD	0.001
RESPIRABLE PARTICULATE MATTER (PM10)	µg/m³	GRAVIMETRIC HIGH VOLUME METHOD	0.001
ANALYSIS NO.			1245444-0006

**REMARKS**  
1. US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I PART 50 APPENDIX 8, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH VOLUME METHOD), REVISED AS OF JULY 1, 2021.  
2. US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I PART 50 APPENDIX 1, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH VOLUME METHOD), REVISED AS OF JULY 1, 2021.  
3. SAMPLING FROM 10:30 HOUR ON MARCH 27, 2024 TO 10:30 HOUR ON MARCH 28, 2024.  
4. SAMPLING FROM 10:30 HOUR ON MARCH 27, 2024 TO 10:30 HOUR ON MARCH 28, 2024.  
5. SAMPLING FROM 10:30 HOUR ON MARCH 27, 2024 TO 10:30 HOUR ON MARCH 28, 2024.  
6. SAMPLING FROM 10:30 HOUR ON MARCH 27, 2024 TO 10:30 HOUR ON MARCH 28, 2024.

APRIL 5, 2024

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End of Analysis Report

## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPES (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CP-CPB JONT VENTURE  
**ADDRESS** : 355 BANG KONG 11TH FLOOR, PHANUWOTHIN ROAD, CHATUCHAK DISTRICT BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 02-264 3833 Fax: 02-264 3834 Email: lae@lueae.com  
**MEASURING PLACE** : CHATUCHAK DISTRICT  
**MEASURING TYPE** : AIRSPEED (M/S)  
**MEASURING TIME** : MARCH 21-26, 2024  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION (EQUIPMENT)  
**MEASURED BY** : MR. SUPANON SUWASEE

TIME	MARCH 21-22, 2024				MARCH 23-24, 2024				MARCH 25-26, 2024			
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
09:00-10:00 HOUR	0.8	SSW	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW
10:00-11:00 HOUR	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW
11:00-12:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
12:00-13:00 HOUR	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW
13:00-14:00 HOUR	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW
14:00-15:00 HOUR	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW
15:00-16:00 HOUR	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW
16:00-17:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
17:00-18:00 HOUR	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW	1.0	SSW
18:00-19:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
19:00-20:00 HOUR	1.2	SSW	1.2	SSW	1.2	SSW	1.2	SSW	1.2	SSW	1.2	SSW
20:00-21:00 HOUR	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW	0.8	SSW
21:00-22:00 HOUR	1.2	SSW	1.2	SSW	1.2	SSW	1.2	SSW	1.2	SSW	1.2	SSW
22:00-23:00 HOUR	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW
23:00-00:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
00:00-01:00 HOUR	0.7	SSW	0.7	SSW	0.7	SSW	0.7	SSW	0.7	SSW	0.7	SSW
01:00-02:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
02:00-03:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
03:00-04:00 HOUR	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW
04:00-05:00 HOUR	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW
05:00-06:00 HOUR	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW	1.1	SSW
06:00-07:00 HOUR	1.9	SSW	1.9	SSW	1.9	SSW	1.9	SSW	1.9	SSW	1.9	SSW
07:00-08:00 HOUR	2.2	SSW	2.2	SSW	2.2	SSW	2.2	SSW	2.2	SSW	2.2	SSW
08:00-09:00 HOUR	1.8	SSW	1.8	SSW	1.8	SSW	1.8	SSW	1.8	SSW	1.8	SSW

MARCH 28, 2024

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End of Analysis Report



## ANALYSIS REPORT

PROJECT NAME	CUSTOMER NAME	ADDRESS
1. TRANSDUCING - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) 26 CONSTRUCTION PHASE	1. SHIPREC INTERNATIONAL PETROLEUM SERVICES (THAILAND) COMPANY LIMITED	1. 55/55 RASA TOWER 11TH FLOOR, 501 PHRAHATYOMIN 19 PHRAHATYOMIN ROAD, CHATUCHAK CHATUCHAK MARKET, 10900

CONTACT INFORMATION	
TEL : 847 341 6707 e-mail : <a href="mailto:Labmanager@pisa.com">Labmanager@pisa.com</a>	
AS EQUIPMENT WITHIN OUR WORKING CONDITIONS, FOR FURTHER INFORMATION	
SAMPLING SOURCE	AMBIENT
SAMPLE TYPE	RECEIVED DATE : JUNE 15, 2024
SAMPLING DATE	ANALYTICAL DATE : JUNE 15, 2024
SAMPLING TIME	ISSUE DATE : JUNE 24, 2024
SAMPLING BY	REPORT NO. : 2024-1056378
ANALYZED BY	WORK NO. : 2024-021873
	ANALYSIS NO. : 2024-021873-1
	TESTING NO. : 2024-021873-0005

PARAMETER	UNIT	METHOD OF ANALYSIS
TOTAL SUSPENDED PARTICULATE MATTER	mg/m <sup>3</sup>	GRAVIMETRIC HIGH VOLUME METHOD
PARTICULATE MATTER < 8 µm	mg/m <sup>3</sup>	GRAVIMETRIC HIGH VOLUME METHOD
SAMPLE CONDITION		COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE

REMARK:  
TEST METHOD  
TS-9

USEPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I PART 50 APPENDIX A, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM<sub>10</sub> IN THE ATMOSPHERE (DUST VOLUME METHOD) REVISED AS OF JULY 1, 2011.

- SAMPLING FROM 05:00 HOUR ON JUNE 8, 2024 TO 05:00 HOUR ON JUNE 9, 2024.
- SAMPLING FROM 05:00 HOUR ON JUNE 9, 2024 TO 05:00 HOUR ON JUNE 10, 2024.
- SAMPLING FROM 05:00 HOUR ON JUNE 10, 2024 TO 05:00 HOUR ON JUNE 11, 2024.
- SAMPLING FROM 05:00 HOUR ON JUNE 11, 2024 TO 05:00 HOUR ON JUNE 12, 2024.
- SAMPLING FROM 05:00 HOUR ON JUNE 12, 2024 TO 05:00 HOUR ON JUNE 13, 2024.

Journal of Management Education 36(1)

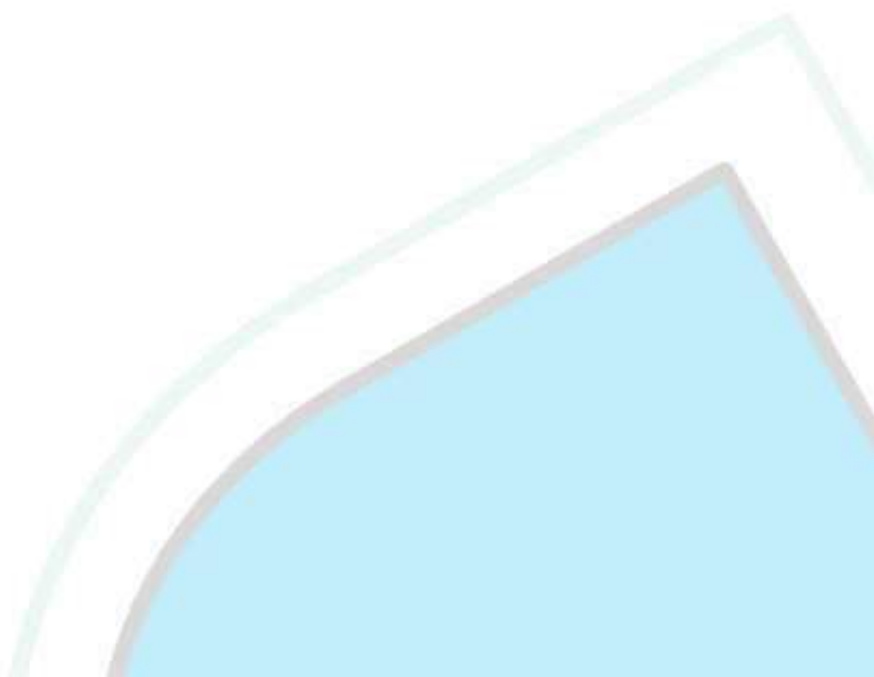
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End of Assembly Report



**ภาคผนวก ณ-2**  
**ผลการวิเคราะห์ระดับเสียงทั่วไป**





TIME*	RESULT (dBA)			
	กรุงเทพมหานคร			
	MARCH 22 - 23, 2024			
	T3AMG44E-0003			
	Long 1 hour	Long 8 hours	Long 1 hour	Long 1 hour
10:00-11:00 HOUR	58.1	-	67.1	48.7
11:00-12:00 HOUR	52.0	-	68.6	48.2
12:00-13:00 HOUR	51.1	-	74.0	47.8
13:00-14:00 HOUR	52.1	-	71.3	48.0
14:00-15:00 HOUR	52.4	-	70.8	48.8
15:00-16:00 HOUR	51.2	-	68.8	48.3
16:00-17:00 HOUR	52.8	-	68.9	48.2
17:00-18:00 HOUR	54.3	53.9	79.7	46.1
18:00-19:00 HOUR	52.3	-	88.4	46.0
19:00-20:00 HOUR	55.9	-	81.5	46.9
20:00-21:00 HOUR	51.7	-	76.2	49.0
21:00-22:00 HOUR	46.9	-	81.5	47.8
22:00-23:00 HOUR	46.5	-	68.2	46.1
23:00-00:00 HOUR	48.3	-	78.8	44.8
00:00-01:00 HOUR	50.2	-	84.9	46.5
01:00-02:00 HOUR	47.6	51.7	82.3	45.1
02:00-03:00 HOUR	47.7	-	88.9	45.8
03:00-04:00 HOUR	48.4	-	78.3	45.2
04:00-05:00 HOUR	48.0	-	65.5	46.1
05:00-06:00 HOUR	51.0	-	72.0	46.4
06:00-07:00 HOUR	52.7	-	77.6	50.2
07:00-08:00 HOUR	52.5	-	73.3	50.1
08:00-09:00 HOUR	53.9	-	77.9	49.1
09:00-10:00 HOUR	60.1	53.9	85.9	48.0
Long 24 hours				53.3

TIME*	RESULT (dBA)			
	กรุงเทพมหานคร			
	MARCH 23 - 24, 2024			
	T3AMG44E-0004			
	Long 1 hour	Long 8 hours	Long 1 hour	Long 1 hour
10:00-11:00 HOUR	62.3	-	86.9	47.9
11:00-12:00 HOUR	56.0	-	80.1	48.8
12:00-13:00 HOUR	59.3	-	76.1	53.2
13:00-14:00 HOUR	58.8	-	79.4	55.4
14:00-15:00 HOUR	57.1	-	76.8	53.6
15:00-16:00 HOUR	60.0	-	70.4	50.8
16:00-17:00 HOUR	55.1	-	72.5	52.0
17:00-18:00 HOUR	55.5	58.7	81.2	53.2
18:00-19:00 HOUR	55.5	-	79.3	53.1
19:00-20:00 HOUR	56.4	-	85.9	52.7
20:00-21:00 HOUR	53.3	-	76.7	52.6
21:00-22:00 HOUR	51.3	-	83.5	50.0
22:00-23:00 HOUR	51.2	-	75.1	49.7
23:00-00:00 HOUR	51.1	-	75.7	48.6
00:00-01:00 HOUR	46.9	-	71.7	47.1
01:00-02:00 HOUR	52.8	52.8	79.8	48.1
02:00-03:00 HOUR	48.6	-	81.5	46.6
03:00-04:00 HOUR	47.4	-	70.1	44.9
04:00-05:00 HOUR	47.4	-	72.8	46.7
05:00-06:00 HOUR	46.7	-	86.7	47.3
06:00-07:00 HOUR	52.5	-	71.3	50.8
07:00-08:00 HOUR	51.8	-	70.2	48.5
08:00-09:00 HOUR	51.2	-	72.7	47.8
09:00-10:00 HOUR	52.7	50.6	73.8	48.5
Long 24 hours				55.4



TIME*	RESULT dB(A)			
	กรุงเทพมหานคร MARCH 24 - 25, 2024 T24AGH45-0005			
	Leq 1 hour	Leq 8 hour	Leq 24 hour	Leq 1 year
10:00-11:00 HOUR	51.1	-	75.6	47.9
11:00-12:00 HOUR	50.5	-	74.2	48.0
12:00-13:00 HOUR	51.1	-	69.3	48.4
13:00-14:00 HOUR	52.7	-	74.3	48.6
14:00-15:00 HOUR	54.1	-	72.7	52.6
15:00-16:00 HOUR	53.0	-	72.5	49.5
16:00-17:00 HOUR	49.8	-	71.0	47.2
17:00-18:00 HOUR	54.8	51.9	72.6	48.1
18:00-19:00 HOUR	51.7	-	68.6	48.7
19:00-20:00 HOUR	51.4	-	75.3	49.4
20:00-21:00 HOUR	56.5	-	64.6	48.7
21:00-22:00 HOUR	51.6	-	64.2	48.4
22:00-23:00 HOUR	48.0	-	68.2	47.5
23:00-00:00 HOUR	49.9	-	75.8	47.1
00:00-01:00 HOUR	48.5	-	73.0	46.8
01:00-02:00 HOUR	47.9	58.4	64.4	48.0
02:00-03:00 HOUR	51.4	-	79.3	48.6
03:00-04:00 HOUR	48.5	-	59.4	48.1
04:00-05:00 HOUR	48.8	-	64.9	47.0
05:00-06:00 HOUR	54.1	-	72.4	51.5
06:00-07:00 HOUR	51.1	-	72.0	51.0
07:00-08:00 HOUR	51.6	-	77.3	48.4
08:00-09:00 HOUR	51.7	-	84.0	47.0
09:00-10:00 HOUR	53.4	52.6	67.5	45.1
Leq 24 hours			51.7	

*h*

(MR. SULA BAIKONGKORUK)  
LABORATORY SUPERVISOR

MARCH 25, 2024

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2024-0927042

- End of Analysis Report -

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PPT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CH-CHAI JOINT VENTURE  
**ADDRESS** : 595 BANGKOK TOWER 118TH FLOOR, PHANFAKHOH ROAD, CHATUCHAK DISTRICT BANGKOK 10600  
**CONTACT INFORMATION** : TEL : 091 969 1684 e-mail : info@unitedanalyst.com  
**MEASURING SOURCE** : TRANSMISSION  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : MARCH 24-25, 2024  
**MEASURING TIME** : 24  
**MEASURING METHOD** : INTEGRATED SQUARE LEVEL METER  
**MEASURED BY** : MR. SULA BAIKONGKORUK

**RECEIVED DATE** : MARCH 20-25, 2024  
**ANALYTICAL DATE** : MARCH 20-25, 2024  
**ISSUE DATE** : MARCH 29, 2024  
**REPORT NO.** : 2024-007044  
**WORK NO.** : 2027-000033  
**ANALYSIS NO.** : T24AGH45-0001 - T24AGH45-0022

TIME*	RESULT dB(A)	
	Leq 1 min	Leq 5 min
10:00-10:05 HOUR	48.5	45.5
10:05-10:10 HOUR	48.8	45.2
10:10-10:15 HOUR	51.7	45.7
10:15-10:20 HOUR	52.4	46.5
10:20-10:25 HOUR	50.3	45.9
10:25-10:30 HOUR	53.8	45.5
10:30-10:35 HOUR	48.7	45.4
10:35-10:40 HOUR	48.9	44.9
10:40-10:45 HOUR	48.1	45.6
10:45-10:50 HOUR	50.5	45.5
10:50-10:55 HOUR	52.0	46.5
10:55-11:00 HOUR	53.1	46.1
11:00-11:05 HOUR	51.9	44.9
11:05-11:10 HOUR	58.1	47.4
11:10-11:15 HOUR	55.7	50.5
11:15-11:20 HOUR	56.7	53.0
11:20-11:25 HOUR	58.7	52.9
11:25-11:30 HOUR	58.1	54.0
11:30-11:35 HOUR	60.6	55.0
11:35-11:40 HOUR	61.4	57.3
11:40-11:45 HOUR	61.4	56.8
11:45-11:50 HOUR	59.9	58.0
11:50-11:55 HOUR	62.5	58.0
11:55-12:00 HOUR	61.9	58.3
12:00-12:05 HOUR	62.2	57.9
12:05-12:10 HOUR	61.0	57.3
12:10-12:15 HOUR	60.9	57.1
12:15-12:20 HOUR	59.8	57.5
12:20-12:25 HOUR	59.0	57.4
12:25-12:30 HOUR	59.5	57.8
12:30-12:35 HOUR	61.1	56.7
12:35-12:40 HOUR	59.6	57.7
12:40-12:45 HOUR	60.2	57.2
12:45-12:50 HOUR	59.1	57.4
12:50-12:55 HOUR	59.4	56.5
12:55-13:00 HOUR	58.5	56.3
13:00-13:05 HOUR	63.9	56.9

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NO EXCESS DEVIATION  
NO EXCESS DEVIATION

TIME*	RESULT (KVA)	
	Load 5 min	Load 1 min
13:05-13:10 HOUR	58.5	57.7
13:15-13:20 HOUR	58.7	58.0
13:25-13:30 HOUR	58.3	58.3
13:35-13:40 HOUR	59.3	57.4
13:45-13:50 HOUR	58.4	56.8
13:55-14:00 HOUR	60.0	57.9
14:05-14:10 HOUR	59.1	57.4
14:15-14:20 HOUR	58.8	56.6
14:25-14:30 HOUR	57.1	55.2
14:35-14:40 HOUR	56.1	54.2
14:45-14:50 HOUR	56.2	53.7
14:55-15:00 HOUR	55.1	52.9
15:05-15:10 HOUR	65.3	55.1
15:15-15:20 HOUR	60.2	53.7
15:25-15:30 HOUR	70.6	54.6
15:35-15:40 HOUR	58.9	55.3
15:45-15:50 HOUR	57.3	55.8
15:55-16:00 HOUR	56.3	54.8
16:05-16:10 HOUR	56.7	54.8
16:15-16:20 HOUR	57.3	56.1
16:25-16:30 HOUR	59.0	55.9
16:35-16:40 HOUR	58.5	55.1
16:45-16:50 HOUR	58.4	56.1
16:55-17:00 HOUR	59.5	56.5
17:05-17:10 HOUR	58.3	56.6
17:15-17:20 HOUR	56.3	52.7
17:25-17:30 HOUR	60.6	51.4
17:35-17:40 HOUR	55.2	51.8
17:45-17:50 HOUR	54.0	51.3
17:55-18:00 HOUR	56.0	51.0
18:05-18:10 HOUR	57.3	50.6
18:15-18:20 HOUR	54.4	51.9
18:25-18:30 HOUR	56.4	52.2
18:35-18:40 HOUR	57.5	53.7
18:45-18:50 HOUR	56.4	52.2
18:55-19:00 HOUR	57.5	53.7
19:05-19:10 HOUR	56.8	54.2
19:15-19:20 HOUR	58.1	56.2
19:25-19:30 HOUR	55.5	53.5
19:35-19:40 HOUR	58.0	55.4
19:45-19:50 HOUR	58.9	55.4
19:55-20:00 HOUR	57.5	53.7
20:05-20:10 HOUR	58.4	54.9
20:15-20:20 HOUR	59.6	55.6
20:25-20:30 HOUR	59.3	56.2
20:35-20:40 HOUR	57.9	53.8
20:45-20:50 HOUR	58.4	54.5
20:55-21:00 HOUR	57.9	53.8
21:05-21:10 HOUR	58.4	54.5
21:15-21:20 HOUR	58.0	54.2
21:25-21:30 HOUR	58.1	54.4
21:35-21:40 HOUR	58.2	54.8
21:45-21:50 HOUR	58.8	55.3

TIME*	RESULT (KVA)	
	Load 5 min	Load 1 min
17:20-17:25 HOUR	59.7	56.4
17:25-17:30 HOUR	58.1	56.7
17:30-17:35 HOUR	58.0	56.5
17:35-17:40 HOUR	57.9	56.5
17:40-17:45 HOUR	57.2	55.2
17:45-17:50 HOUR	57.6	55.3
17:50-17:55 HOUR	57.6	56.2
17:55-18:00 HOUR	58.0	56.8
18:00-18:05 HOUR	58.0	56.5
18:05-18:10 HOUR	59.7	56.9
18:10-18:15 HOUR	59.6	56.8
18:15-18:20 HOUR	57.7	56.3
18:20-18:25 HOUR	59.2	56.1
18:25-18:30 HOUR	58.3	56.8
18:30-18:35 HOUR	58.8	56.3
18:35-18:40 HOUR	56.7	54.9
18:40-18:45 HOUR	57.3	56.0
18:45-18:50 HOUR	57.3	53.4
18:50-18:55 HOUR	56.9	53.3
18:55-19:00 HOUR	56.3	54.7
19:00-19:05 HOUR	58.3	54.4
19:05-19:10 HOUR	56.6	54.8
19:10-19:15 HOUR	56.1	54.0
19:15-19:20 HOUR	56.9	55.3
19:20-19:25 HOUR	57.1	55.5
19:25-19:30 HOUR	56.7	55.2
19:30-19:35 HOUR	58.0	56.0
19:35-19:40 HOUR	59.1	56.7
19:40-19:45 HOUR	57.0	54.9
19:45-19:50 HOUR	56.0	54.1
19:50-19:55 HOUR	56.3	54.7
19:55-20:00 HOUR	55.5	54.1
20:00-20:05 HOUR	56.0	53.7
20:05-20:10 HOUR	55.9	53.8
20:10-20:15 HOUR	56.4	54.9
20:15-20:20 HOUR	56.7	54.6
20:20-20:25 HOUR	57.0	55.0
20:25-20:30 HOUR	57.0	54.9
20:30-20:35 HOUR	57.2	55.1
20:35-20:40 HOUR	56.7	54.6
20:40-20:45 HOUR	56.7	54.9
20:45-20:50 HOUR	56.8	54.5
20:50-20:55 HOUR	56.3	52.8
20:55-21:00 HOUR	56.5	54.0
21:00-21:05 HOUR	55.6	54.0
21:05-21:10 HOUR	54.3	52.8
21:10-21:15 HOUR	54.8	53.4
21:15-21:20 HOUR	55.9	52.7
21:20-21:25 HOUR	55.5	53.7
21:25-21:30 HOUR	54.7	53.1
21:30-21:35 HOUR	55.0	52.5

TIME*	RESULT (dBA)	
	Leq 5 min	Leq 1 min
21:35-21:40 HOUR	54.8	52.4
21:40-21:45 HOUR	52.9	51.2
21:45-21:50 HOUR	52.8	48.2
21:50-21:55 HOUR	54.1	56.2
21:55-22:00 HOUR	53.4	50.5
22:00-22:05 HOUR	52.2	50.8
22:05-22:10 HOUR	52.2	50.2
22:10-22:15 HOUR	52.4	50.5
22:15-22:20 HOUR	53.9	50.3
22:20-22:25 HOUR	50.0	48.4
22:25-22:30 HOUR	50.2	48.4
22:30-22:35 HOUR	52.4	49.1
22:35-22:40 HOUR	52.9	50.8
22:40-22:45 HOUR	53.2	50.3
22:45-22:50 HOUR	51.4	51.4
22:50-22:55 HOUR	52.8	51.6
22:55-23:00 HOUR	52.7	51.3
23:00-23:05 HOUR	52.5	50.6
23:05-23:10 HOUR	50.4	49.2
23:10-23:15 HOUR	49.7	48.6
23:15-23:20 HOUR	50.9	47.6
23:20-23:25 HOUR	48.7	47.1
23:25-23:30 HOUR	49.8	48.0
23:30-23:35 HOUR	49.1	47.7
23:35-23:40 HOUR	50.4	48.8
23:40-23:45 HOUR	50.4	49.0
23:45-23:50 HOUR	51.2	49.3
23:50-23:55 HOUR	52.3	50.7
23:55-00:00 HOUR	52.3	49.0
00:00-00:05 HOUR	52.3	49.7
00:05-00:10 HOUR	53.6	51.2
00:10-00:15 HOUR	52.7	49.6
00:15-00:20 HOUR	53.4	50.1
00:20-00:25 HOUR	53.3	49.3
00:25-00:30 HOUR	53.4	50.5
00:30-00:35 HOUR	53.6	49.0
00:35-00:40 HOUR	52.1	50.2
00:40-00:45 HOUR	52.2	50.4
00:45-00:50 HOUR	52.0	49.7
00:50-00:55 HOUR	52.6	49.9
00:55-01:00 HOUR	53.0	49.0
01:00-01:05 HOUR	53.7	49.2
01:05-01:10 HOUR	52.3	49.7
01:10-01:15 HOUR	51.5	49.6
01:15-01:20 HOUR	51.6	49.9
01:20-01:25 HOUR	51.4	49.7
01:25-01:30 HOUR	54.5	48.3
01:30-01:35 HOUR	54.1	47.6
01:35-01:40 HOUR	54.3	48.2
01:40-01:45 HOUR	54.9	48.6
01:45-01:50 HOUR	54.2	48.3

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4/20

2024-U027044

NO ANALYSIS  
NO ANALYSIS  
NO ANALYSIS

TIME*	RESULT (dBA)	
	Leq 5 min	Leq 1 min
01:50-01:55 HOUR	50.0	47.5
01:55-02:00 HOUR	50.3	47.9
02:00-02:05 HOUR	50.3	47.8
02:05-02:10 HOUR	51.4	47.0
02:10-02:15 HOUR	50.5	46.3
02:15-02:20 HOUR	49.3	46.5
02:20-02:25 HOUR	49.4	46.5
02:25-02:30 HOUR	49.8	46.4
02:30-02:35 HOUR	51.9	48.1
02:35-02:40 HOUR	50.8	47.8
02:40-02:45 HOUR	50.8	47.8
02:45-02:50 HOUR	50.4	47.5
02:50-02:55 HOUR	50.4	47.8
02:55-03:00 HOUR	49.3	46.7
03:00-03:05 HOUR	49.9	46.7
03:05-03:10 HOUR	49.9	47.5
03:10-03:15 HOUR	47.8	46.9
03:15-03:20 HOUR	48.1	46.9
03:20-03:25 HOUR	49.0	46.3
03:25-03:30 HOUR	50.1	46.7
03:30-03:35 HOUR	50.3	47.4
03:35-03:40 HOUR	51.3	48.0
03:40-03:45 HOUR	52.2	49.3
03:45-03:50 HOUR	51.5	48.0
03:50-03:55 HOUR	52.9	49.7
03:55-04:00 HOUR	54.2	49.6
04:00-04:05 HOUR	52.8	49.8
04:05-04:10 HOUR	53.0	50.0
04:10-04:15 HOUR	52.5	49.9
04:15-04:20 HOUR	52.7	50.3
04:20-04:25 HOUR	51.6	49.5
04:25-04:30 HOUR	52.4	49.0
04:30-04:35 HOUR	52.9	49.9
04:35-04:40 HOUR	51.4	50.3
04:40-04:45 HOUR	53.6	51.7
04:45-04:50 HOUR	53.8	51.2
04:50-04:55 HOUR	52.3	49.7
04:55-05:00 HOUR	53.1	50.8
05:00-05:05 HOUR	53.6	50.2
05:05-05:10 HOUR	53.1	50.9
05:10-05:15 HOUR	53.3	51.4
05:15-05:20 HOUR	53.2	51.7
05:20-05:25 HOUR	54.4	51.7
05:25-05:30 HOUR	54.2	51.3
05:30-05:35 HOUR	56.0	53.6
05:35-05:40 HOUR	54.9	50.9
05:40-05:45 HOUR	55.5	53.5
05:45-05:50 HOUR	57.1	53.2
05:50-05:55 HOUR	55.5	52.8
05:55-06:00 HOUR	56.2	52.8
06:00-06:05 HOUR	55.2	52.9
06:05-06:10 HOUR	55.7	53.5

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5/20

2024-U027044

NO ANALYSIS  
NO ANALYSIS  
NO ANALYSIS



TIME*	RESULT (dB(A))	
	08:00-08:15 HOURS	08:15-08:30 HOURS
MARCH 20 - 21, 2024		
T2MAG44E-0003		
08:00-08:15 HOUR	56.5	54.1
08:15-08:30 HOUR	56.5	54.7
08:30-08:45 HOUR	56.3	53.7
08:45-09:00 HOUR	54.7	54.1
08:00-08:15 HOUR	55.0	53.0
08:15-08:30 HOUR	54.9	52.9
08:30-08:45 HOUR	53.7	53.0
08:45-09:00 HOUR	53.8	53.6
09:00-09:15 HOUR	53.7	54.7
09:15-09:30 HOUR	53.8	52.4
09:30-09:45 HOUR	56.0	54.0
09:45-10:00 HOUR	55.4	53.3
09:00-09:15 HOUR	55.4	53.1
09:15-09:30 HOUR	56.2	53.3
09:30-09:45 HOUR	54.1	52.4
09:45-10:00 HOUR	54.2	53.2
09:00-09:15 HOUR	52.1	49.4
09:15-09:30 HOUR	52.5	54.4
09:30-09:45 HOUR	52.4	54.6
09:45-10:00 HOUR	53.2	54.2
09:00-09:15 HOUR	56.5	52.3
09:15-09:30 HOUR	56.2	54.3
09:30-09:45 HOUR	56.2	54.9
09:45-10:00 HOUR	57.0	54.2
09:00-09:15 HOUR	56.8	54.5
09:15-09:30 HOUR	57.1	54.7
09:30-09:45 HOUR	57.3	54.5
09:45-10:00 HOUR	62.3	56.1
09:00-09:15 HOUR	61.1	54.2
09:15-09:30 HOUR	63.1	57.7
09:30-09:45 HOUR	61.4	55.5
09:45-10:00 HOUR	59.3	56.7
09:00-09:15 HOUR	63.6	56.0
09:15-09:30 HOUR	64.8	56.4
09:30-09:45 HOUR	63.8	56.2
09:45-10:00 HOUR	64.5	56.8
09:00-09:15 HOUR	59.7	55.4
09:15-09:30 HOUR	59.4	55.3
09:30-09:45 HOUR	58.7	55.2
09:45-10:00 HOUR	60.3	55.0
09:00-09:15 HOUR	59.6	56.1
09:15-09:30 HOUR	59.9	55.2

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TIME*	RESULT (dB(A))	
	08:00-08:15 HOURS	08:15-08:30 HOURS
MARCH 21 - 22, 2024		
T2MAG44E-0002		
10:00-10:15 HOUR	55.5	52.1
10:15-10:30 HOUR	54.5	51.6
10:30-10:45 HOUR	55.8	52.2
10:45-11:00 HOUR	54.3	52.5
10:00-10:15 HOUR	57.1	53.8
10:15-10:30 HOUR	66.6	53.2
10:30-10:45 HOUR	56.7	53.0
10:45-11:00 HOUR	56.2	53.7
10:00-10:15 HOUR	58.0	53.3
10:15-10:30 HOUR	61.3	52.7
10:30-10:45 HOUR	59.9	52.9
10:45-11:00 HOUR	60.5	53.2
11:00-11:15 HOUR	57.4	52.9
11:15-11:30 HOUR	62.1	56.8
11:30-11:45 HOUR	59.4	53.4
11:45-12:00 HOUR	57.2	51.7
11:00-11:15 HOUR	57.5	50.8
11:15-11:30 HOUR	55.8	52.6
11:30-11:45 HOUR	63.0	53.6
11:45-12:00 HOUR	59.2	52.7
11:00-11:15 HOUR	59.3	53.7
11:15-11:30 HOUR	63.0	55.7
11:30-11:45 HOUR	58.1	54.9
11:45-12:00 HOUR	58.8	54.8
12:00-12:15 HOUR	58.3	53.3
12:15-12:30 HOUR	61.1	56.8
12:30-12:45 HOUR	59.5	56.1
12:45-13:00 HOUR	60.2	57.3
12:00-12:15 HOUR	62.4	56.7
12:15-12:30 HOUR	57.4	54.0
12:30-12:45 HOUR	66.4	56.7
12:45-13:00 HOUR	64.1	56.4
13:00-13:15 HOUR	58.7	55.8
13:15-13:30 HOUR	58.3	55.4
13:30-13:45 HOUR	60.6	56.0
13:45-14:00 HOUR	59.0	56.6
13:00-13:15 HOUR	60.1	55.6
13:15-13:30 HOUR	61.2	56.3
13:30-13:45 HOUR	59.7	56.6
13:45-14:00 HOUR	61.3	56.5
14:00-14:15 HOUR	60.7	56.1
14:15-14:30 HOUR	60.4	55.1
14:30-14:45 HOUR	55.4	52.4
14:45-15:00 HOUR	55.8	52.4
14:00-14:15 HOUR	59.1	53.0
14:15-14:30 HOUR	64.3	56.4
14:30-14:45 HOUR	59.3	55.3
14:45-15:00 HOUR	58.2	54.4
15:00-15:15 HOUR	61.2	55.9
15:15-15:30 HOUR	62.6	51.4
15:30-15:45 HOUR	62.7	54.0

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TIME*	RESULT (dB(A))	
	Long 3 m/s	Long 5 m/s
14:05-14:20 HOUR	60.8	55.2
14:20-14:25 HOUR	58.4	55.7
14:25-14:30 HOUR	57.8	54.6
14:30-14:35 HOUR	58.1	58.2
14:35-14:40 HOUR	58.0	56.0
14:40-14:45 HOUR	55.9	52.8
14:45-14:50 HOUR	56.9	52.5
14:50-14:55 HOUR	57.9	51.8
14:55-15:00 HOUR	57.8	52.7
15:00-15:05 HOUR	59.2	54.3
15:05-15:10 HOUR	57.7	54.4
15:10-15:15 HOUR	63.3	59.7
15:15-15:20 HOUR	61.2	52.5
15:20-15:25 HOUR	59.9	55.9
15:25-15:30 HOUR	60.1	53.5
15:30-15:35 HOUR	60.5	54.5
15:35-15:40 HOUR	59.5	54.5
15:40-15:45 HOUR	58.2	52.7
15:45-15:50 HOUR	64.3	52.6
15:50-15:55 HOUR	62.4	53.9
15:55-16:00 HOUR	59.7	51.6
16:00-16:05 HOUR	61.9	54.8
16:05-16:10 HOUR	61.0	58.2
16:10-16:15 HOUR	61.7	56.9
16:15-16:20 HOUR	58.1	53.2
16:20-16:25 HOUR	61.8	56.3
16:25-16:30 HOUR	63.8	55.8
16:30-16:35 HOUR	60.4	55.4
16:35-16:40 HOUR	61.7	55.4
16:40-16:45 HOUR	59.5	55.1
16:45-16:50 HOUR	62.7	55.9
16:50-16:55 HOUR	67.4	56.8
16:55-17:00 HOUR	62.7	56.4
17:00-17:05 HOUR	62.5	56.4
17:05-17:10 HOUR	59.5	55.8
17:10-17:15 HOUR	60.8	54.8
17:15-17:20 HOUR	59.2	54.4
17:20-17:25 HOUR	59.9	50.5
17:25-17:30 HOUR	61.1	56.4
17:30-17:35 HOUR	59.0	56.2
17:35-17:40 HOUR	59.1	56.7
17:40-17:45 HOUR	57.8	55.6
17:45-17:50 HOUR	57.8	55.6
17:50-17:55 HOUR	57.4	55.8
17:55-18:00 HOUR	58.2	55.3
18:00-18:05 HOUR	59.5	55.6
18:05-18:10 HOUR	56.7	55.3
18:10-18:15 HOUR	56.8	55.1
18:15-18:20 HOUR	56.2	54.6
18:20-18:25 HOUR	55.8	51.9

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20

2024-10-27-044

TIME*	RESULT (dB(A))	
	Long 3 m/s	Long 5 m/s
18:30-18:35 HOUR	55.8	54.0
18:35-18:40 HOUR	56.0	54.1
18:40-18:45 HOUR	54.5	52.2
18:45-18:50 HOUR	54.2	48.9
18:50-18:55 HOUR	52.8	48.0
18:55-19:00 HOUR	52.8	49.3
19:00-19:05 HOUR	51.9	48.9
19:05-19:10 HOUR	52.2	52.6
19:10-19:15 HOUR	52.1	52.6
19:15-19:20 HOUR	51.7	52.2
19:20-19:25 HOUR	52.0	52.7
19:25-19:30 HOUR	53.0	50.1
19:30-19:35 HOUR	54.2	52.0
19:35-19:40 HOUR	53.8	48.2
19:40-19:45 HOUR	49.8	48.6
19:45-19:50 HOUR	58.7	48.5
19:50-19:55 HOUR	51.3	48.8
19:55-20:00 HOUR	51.2	48.1
20:00-20:05 HOUR	49.4	47.7
20:05-20:10 HOUR	46.5	48.0
20:10-20:15 HOUR	52.0	48.3
20:15-20:20 HOUR	50.0	48.1
20:20-20:25 HOUR	52.2	48.2
20:25-20:30 HOUR	53.1	48.4
20:30-20:35 HOUR	65.5	49.8
20:35-20:40 HOUR	51.9	48.5
20:40-20:45 HOUR	59.2	48.5
20:45-20:50 HOUR	52.4	48.3
20:50-20:55 HOUR	58.6	48.2
20:55-21:00 HOUR	50.2	47.1
21:00-21:05 HOUR	49.3	47.1
21:05-21:10 HOUR	48.2	47.2
21:10-21:15 HOUR	48.1	47.3
21:15-21:20 HOUR	58.2	47.9
21:20-21:25 HOUR	49.3	47.7
21:25-21:30 HOUR	50.6	47.5
21:30-21:35 HOUR	49.0	47.3
21:35-21:40 HOUR	49.4	47.2
21:40-21:45 HOUR	50.5	48.7
21:45-21:50 HOUR	56.1	48.1
21:50-21:55 HOUR	51.3	48.0
21:55-22:00 HOUR	56.4	48.9
22:00-22:05 HOUR	49.7	47.6
22:05-22:10 HOUR	50.4	48.3
22:10-22:15 HOUR	51.0	48.7
22:15-22:20 HOUR	52.4	48.0
22:20-22:25 HOUR	50.1	48.1
22:25-22:30 HOUR	50.7	48.0
22:30-22:35 HOUR	50.3	48.5
22:35-22:40 HOUR	49.2	48.2
22:40-22:45 HOUR	48.3	48.1

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9/9

2024-10-27-044

TIME*	RESULT dB(A)	
	ข้อมูลผลการตรวจ	
	MARCH 21 - 22, 2024	
	T344-0445-0002	
	Limit 5 min	Limit 1 min
22:45-23:50 HOUR	53.8	48.5
23:50-23:55 HOUR	50.0	48.5
23:55-24:00 HOUR	49.1	47.9
24:00-24:05 HOUR	50.4	48.2
24:05-24:10 HOUR	49.1	48.0
24:10-24:15 HOUR	48.5	47.1
24:15-24:20 HOUR	48.3	47.0
24:20-24:25 HOUR	49.4	47.1
24:25-24:30 HOUR	51.8	48.9
24:30-24:35 HOUR	49.0	47.3
24:35-24:40 HOUR	52.5	48.5
24:40-24:45 HOUR	51.0	48.0
24:45-24:50 HOUR	49.3	47.3
24:50-24:55 HOUR	49.0	47.0
24:55-25:00 HOUR	48.8	46.8
25:00-25:05 HOUR	50.8	48.9
25:05-25:10 HOUR	50.6	47.9
25:10-25:15 HOUR	50.4	48.1
25:15-25:20 HOUR	49.4	47.8
25:20-25:25 HOUR	49.3	48.5
25:25-25:30 HOUR	49.4	48.0
25:30-25:35 HOUR	50.0	47.7
25:35-25:40 HOUR	48.8	47.3
25:40-25:45 HOUR	48.4	47.4
25:45-25:50 HOUR	48.9	47.1
25:50-25:55 HOUR	47.9	47.0
25:55-26:00 HOUR	47.5	46.9
26:00-26:05 HOUR	48.6	47.3
26:05-26:10 HOUR	48.7	47.2
26:10-26:15 HOUR	48.0	47.4
26:15-26:20 HOUR	48.6	47.4
26:20-26:25 HOUR	47.9	46.7
26:25-26:30 HOUR	46.0	46.6
26:30-26:35 HOUR	48.2	47.0
26:35-26:40 HOUR	48.3	46.6
26:40-26:45 HOUR	47.4	46.3
26:45-26:50 HOUR	48.4	46.4
26:50-26:55 HOUR	47.3	46.1
26:55-27:00 HOUR	47.5	46.3
27:00-27:05 HOUR	47.4	46.4
27:05-27:10 HOUR	47.4	46.3
27:10-27:15 HOUR	46.0	46.6
27:15-27:20 HOUR	48.0	46.6
27:20-27:25 HOUR	48.2	47.0
27:25-27:30 HOUR	48.3	46.6
27:30-27:35 HOUR	48.8	46.8
27:35-27:40 HOUR	50.6	48.4
27:40-27:45 HOUR	49.9	47.2
27:45-27:50 HOUR	47.3	46.3
27:50-27:55 HOUR	49.0	46.9
27:55-28:00 HOUR	50.1	48.6

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11/20

2024-U027044

TIME*	RESULT dB(A)	
	ข้อมูลผลการตรวจ	
	MARCH 21 - 22, 2024	
	T344-0445-0003	
	Limit 5 min	Limit 1 min
00:30-00:35 HOUR	50.2	48.1
00:35-00:40 HOUR	50.5	48.5
00:40-00:45 HOUR	49.5	47.4
00:45-00:50 HOUR	50.4	48.2
00:50-00:55 HOUR	50.9	48.5
00:55-01:00 HOUR	50.1	48.6
01:00-01:05 HOUR	50.8	48.4
01:05-01:10 HOUR	50.4	48.7
01:10-01:15 HOUR	50.1	48.9
01:15-01:20 HOUR	49.0	48.4
01:20-01:25 HOUR	49.9	48.0
01:25-01:30 HOUR	50.7	48.8
01:30-01:35 HOUR	49.3	47.7
01:35-01:40 HOUR	50.5	48.0
01:40-01:45 HOUR	51.8	47.9
01:45-01:50 HOUR	48.1	46.9
01:50-01:55 HOUR	50.5	48.0
01:55-02:00 HOUR	50.7	48.7
02:00-02:05 HOUR	51.4	48.8
02:05-02:10 HOUR	48.0	47.1
02:10-02:15 HOUR	50.8	47.8
02:15-02:20 HOUR	48.1	47.4
02:20-02:25 HOUR	50.0	48.0
02:25-02:30 HOUR	50.1	47.9
02:30-02:35 HOUR	49.0	47.2
02:35-02:40 HOUR	51.3	48.3
02:40-02:45 HOUR	50.4	48.0
02:45-02:50 HOUR	50.9	47.7
02:50-02:55 HOUR	49.2	47.7
02:55-03:00 HOUR	47.3	44.4
03:00-03:05 HOUR	47.3	46.0
03:05-03:10 HOUR	52.4	48.6
03:10-03:15 HOUR	53.1	48.9
03:15-03:20 HOUR	52.8	50.6
03:20-03:25 HOUR	53.9	51.9
03:25-03:30 HOUR	53.4	51.2
03:30-03:35 HOUR	53.9	51.8
03:35-03:40 HOUR	53.5	52.9
03:40-03:45 HOUR	53.1	51.5
03:45-03:50 HOUR	52.4	50.6
03:50-03:55 HOUR	52.2	50.3
03:55-04:00 HOUR	52.9	50.8
04:00-04:05 HOUR	54.8	52.6
04:05-04:10 HOUR	56.5	51.2
04:10-04:15 HOUR	54.2	51.5
04:15-04:20 HOUR	53.1	51.6
04:20-04:25 HOUR	53.1	51.4
04:25-04:30 HOUR	54.3	52.1
04:30-04:35 HOUR	54.4	52.0
04:35-04:40 HOUR	56.8	52.5
04:40-04:45 HOUR	54.5	52.8

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11/20

2024-U027044

TIME	RESULT (dB(A))	
	L <sub>eq</sub> 5 min	L <sub>avg</sub> 5 min
07:15-07:20 HOUR	33.0	51.9
07:20-07:25 HOUR	34.5	51.8
07:25-07:30 HOUR	34.1	52.5
07:30-07:35 HOUR	34.4	52.8
07:35-07:40 HOUR	53.8	51.6
07:40-07:45 HOUR	34.7	51.2
07:45-07:50 HOUR	53.4	50.9
07:50-07:55 HOUR	53.8	50.9
07:55-08:00 HOUR	53.5	51.0
08:00-08:05 HOUR	57.7	51.8
08:05-08:10 HOUR	54.1	51.3
08:10-08:15 HOUR	54.6	51.5
08:15-08:20 HOUR	53.4	50.5
08:20-08:25 HOUR	53.9	48.1
08:25-08:30 HOUR	53.4	48.8
08:30-08:35 HOUR	53.2	49.0
08:35-08:40 HOUR	54.2	48.3
08:40-08:45 HOUR	54.1	48.1
08:45-08:50 HOUR	52.1	47.4
08:50-08:55 HOUR	51.2	48.8
08:55-09:00 HOUR	51.9	48.8
09:00-09:05 HOUR	51.2	46.4
09:05-09:10 HOUR	51.8	44.5
09:10-09:15 HOUR	51.3	45.0
09:15-09:20 HOUR	49.1	45.0
09:20-09:25 HOUR	50.2	46.7
09:25-09:30 HOUR	47.0	44.4
09:30-09:35 HOUR	48.5	44.1
09:35-09:40 HOUR	48.3	44.9
09:40-09:45 HOUR	53.8	44.7
09:45-09:50 HOUR	51.6	44.5
09:50-09:55 HOUR	44.9	44.0
09:55-10:00 HOUR	48.9	44.9

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2024-0327044

12/30

TIME	RESULT (dB(A))	
	L <sub>eq</sub> 5 min	L <sub>avg</sub> 5 min
10:00-10:05 HOUR	51.4	45.9
10:05-10:10 HOUR	51.8	44.9
10:10-10:15 HOUR	50.3	45.1
10:15-10:20 HOUR	60.5	46.2
10:20-10:25 HOUR	64.0	47.8
10:25-10:30 HOUR	53.0	45.5
10:30-10:35 HOUR	51.0	45.4
10:35-10:40 HOUR	50.7	48.8
10:40-10:45 HOUR	54.7	48.6
10:45-10:50 HOUR	50.9	45.0
10:50-10:55 HOUR	50.9	45.0
10:55-11:00 HOUR	51.4	45.3
11:00-11:05 HOUR	50.1	45.2
11:05-11:10 HOUR	49.3	48.0
11:10-11:15 HOUR	50.8	45.1
11:15-11:20 HOUR	54.7	46.0
11:20-11:25 HOUR	50.2	48.1
11:25-11:30 HOUR	50.1	48.0
11:30-11:35 HOUR	53.5	48.5
11:35-11:40 HOUR	53.4	50.9
11:40-11:45 HOUR	52.8	50.4
11:45-11:50 HOUR	50.9	46.7
11:50-11:55 HOUR	52.8	45.2
11:55-12:00 HOUR	54.0	50.2
12:00-12:05 HOUR	50.3	48.2
12:05-12:10 HOUR	51.6	46.0
12:10-12:15 HOUR	51.3	48.2
12:15-12:20 HOUR	50.3	47.4
12:20-12:25 HOUR	49.9	47.6
12:25-12:30 HOUR	49.2	47.5
12:30-12:35 HOUR	49.6	47.4
12:35-12:40 HOUR	49.3	47.7
12:40-12:45 HOUR	49.1	48.0
12:45-12:50 HOUR	51.8	47.6
12:50-12:55 HOUR	49.2	47.8
12:55-13:00 HOUR	56.1	47.9
13:00-13:05 HOUR	49.8	47.6
13:05-13:10 HOUR	50.4	46.2
13:10-13:15 HOUR	51.5	46.8
13:15-13:20 HOUR	50.7	46.7
13:20-13:25 HOUR	54.6	50.3
13:25-13:30 HOUR	51.8	50.1
13:30-13:35 HOUR	52.6	49.1
13:35-13:40 HOUR	52.8	50.0
13:40-13:45 HOUR	52.0	49.2
13:45-13:50 HOUR	52.6	47.9
13:50-13:55 HOUR	51.7	46.2
13:55-14:00 HOUR	50.6	46.0
14:00-14:05 HOUR	54.0	46.3
14:05-14:10 HOUR	50.8	46.6
14:10-14:15 HOUR	50.8	46.5

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2024-0327044

12/30



TIME*		RESULT (B/A)	
		THERMAL ANALYSIS	
		MARCH 22 - 23, 2024	
		TMA-GAS-0003	
		Loss 5 min	Loss 1 min
14:15-14:20 HOUR	53.0	46.7	46.0
14:20-14:25 HOUR	52.2	46.8	46.6
14:25-14:30 HOUR	50.6	46.4	46.0
14:30-14:35 HOUR	50.8	46.2	45.5
14:35-14:40 HOUR	52.6	46.1	45.1
14:40-14:45 HOUR	52.4	46.3	46.0
14:45-14:50 HOUR	52.8	46.8	46.2
14:50-14:55 HOUR	50.0	46.8	46.2
14:55-15:00 HOUR	50.4	46.7	46.3
15:00-15:05 HOUR	51.0	46.6	46.1
15:05-15:10 HOUR	49.9	46.1	46.2
15:10-15:15 HOUR	50.2	46.2	46.2
15:15-15:20 HOUR	51.3	46.5	46.5
15:20-15:25 HOUR	52.0	46.2	46.2
15:25-15:30 HOUR	52.0	46.2	46.2
15:30-15:35 HOUR	53.4	46.3	46.3
15:35-15:40 HOUR	50.6	46.0	46.0
15:40-15:45 HOUR	49.8	46.1	46.1
15:45-15:50 HOUR	50.3	46.3	46.3
15:50-15:55 HOUR	51.1	46.5	46.5
15:55-16:00 HOUR	49.5	46.5	46.5
16:00-16:05 HOUR	50.2	46.8	46.8
16:05-16:10 HOUR	52.3	46.8	46.8
16:10-16:15 HOUR	51.7	46.5	46.5
16:15-16:20 HOUR	52.1	46.9	46.9
16:20-16:25 HOUR	53.8	50.5	50.5
16:25-16:30 HOUR	58.8	50.0	50.0
16:30-16:35 HOUR	51.9	46.7	46.7
16:35-16:40 HOUR	53.2	46.5	46.5
16:40-16:45 HOUR	53.3	46.3	46.3
16:45-16:50 HOUR	52.0	46.3	46.3
16:50-16:55 HOUR	51.1	46.7	46.7
16:55-17:00 HOUR	53.3	46.0	46.0
17:00-17:05 HOUR	55.3	51.8	51.8
17:05-17:10 HOUR	54.8	52.1	52.1
17:10-17:15 HOUR	58.3	51.6	51.6
17:15-17:20 HOUR	56.0	51.0	51.0
17:20-17:25 HOUR	55.4	50.4	50.4
17:25-17:30 HOUR	53.5	46.1	46.1
17:30-17:35 HOUR	53.0	46.4	46.4
17:35-17:40 HOUR	56.6	46.8	46.8
17:40-17:45 HOUR	52.2	46.5	46.5
17:45-17:50 HOUR	50.9	46.5	46.5
17:50-17:55 HOUR	51.9	46.6	46.6
17:55-18:00 HOUR	52.7	46.1	46.1
18:00-18:05 HOUR	52.1	46.8	46.8
18:05-18:10 HOUR	51.7	46.6	46.6
18:10-18:15 HOUR	52.2	46.7	46.7
18:15-18:20 HOUR	53.1	46.7	46.7
18:20-18:25 HOUR	52.0	50.0	50.0
18:25-18:30 HOUR	51.9	46.9	46.9

TIME*		RESULT (B/A)	
		THERMAL ANALYSIS	
		MARCH 22 - 23, 2024	
		TMA-GAS-0003	
		Loss 5 min	Loss 1 min
18:30-18:35 HOUR	51.7	46.3	46.0
18:35-18:40 HOUR	56.3	46.3	46.6
18:40-18:45 HOUR	51.3	46.3	46.0
18:45-18:50 HOUR	51.4	46.3	46.3
18:50-18:55 HOUR	50.9	46.9	46.1
18:55-19:00 HOUR	51.7	46.0	46.0
19:00-19:05 HOUR	62.3	46.2	46.2
19:05-19:10 HOUR	52.4	50.2	50.2
19:10-19:15 HOUR	54.0	50.1	50.1
19:15-19:20 HOUR	51.6	50.2	50.2
19:20-19:25 HOUR	57.3	50.2	50.2
19:25-19:30 HOUR	56.1	50.8	50.8
19:30-19:35 HOUR	52.5	50.0	50.0
19:35-19:40 HOUR	58.0	46.8	46.8
19:40-19:45 HOUR	52.0	46.7	46.7
19:45-19:50 HOUR	52.1	46.4	46.4
19:50-19:55 HOUR	53.4	46.1	46.1
19:55-20:00 HOUR	52.5	46.3	46.3
20:00-20:05 HOUR	50.3	46.5	46.5
20:05-20:10 HOUR	51.0	46.9	46.9
20:10-20:15 HOUR	50.9	46.1	46.1
20:15-20:20 HOUR	50.6	46.5	46.5
20:20-20:25 HOUR	52.2	46.2	46.2
20:25-20:30 HOUR	52.0	46.2	46.2
20:30-20:35 HOUR	52.5	46.6	46.6
20:35-20:40 HOUR	53.0	46.0	46.0
20:40-20:45 HOUR	52.2	46.0	46.0
20:45-20:50 HOUR	53.3	46.1	46.1
20:50-20:55 HOUR	49.9	46.4	46.4
20:55-21:00 HOUR	46.7	46.0	46.0
21:00-21:05 HOUR	46.7	46.1	46.1
21:05-21:10 HOUR	50.0	46.3	46.3
21:10-21:15 HOUR	46.7	46.0	46.0
21:15-21:20 HOUR	46.9	47.4	47.4
21:20-21:25 HOUR	46.9	47.9	47.9
21:25-21:30 HOUR	50.3	47.8	47.8
21:30-21:35 HOUR	50.1	47.7	47.7
21:35-21:40 HOUR	46.0	47.9	47.9
21:40-21:45 HOUR	46.4	47.9	47.9
21:45-21:50 HOUR	50.3	47.3	47.3
21:50-21:55 HOUR	50.0	47.8	47.8
21:55-22:00 HOUR	46.2	47.3	47.3
22:00-22:05 HOUR	46.3	46.4	46.4
22:05-22:10 HOUR	46.2	47.0	47.0
22:10-22:15 HOUR	46.3	46.8	46.8
22:15-22:20 HOUR	51.3	46.8	46.8
22:20-22:25 HOUR	54.5	46.8	46.8
22:25-22:30 HOUR	50.6	47.3	47.3
22:30-22:35 HOUR	47.6	46.8	46.8
22:35-22:40 HOUR	47.3	46.7	46.7
22:40-22:45 HOUR	46.9	46.3	46.3



TIME*	RESULT (m/s)	
	Simulation 23/03/2024	
	MARCH 23 - 23, 2024	T2AMG445-0003
	Low 9 sec	Low 1 sec
22:45:23:50 HOUR	46.7	45.5
22:50:21:55 HOUR	47.7	45.5
22:55:21:00 HOUR	45.9	44.9
23:00:21:00 HOUR	46.8	44.8
23:05:21:10 HOUR	46.4	44.6
23:10:21:15 HOUR	46.1	44.3
23:15:21:20 HOUR	50.4	44.8
23:20:21:25 HOUR	47.3	44.3
23:25:21:30 HOUR	46.5	44.6
23:30:21:35 HOUR	47.8	44.6
23:35:21:40 HOUR	47.5	44.8
23:40:21:45 HOUR	50.0	45.1
23:45:21:50 HOUR	47.1	45.4
23:50:21:55 HOUR	48.1	45.3
23:55:00:00 HOUR	47.3	44.6
00:00:00:05 HOUR	46.0	44.2
00:05:00:10 HOUR	45.9	44.2
00:10:00:15 HOUR	46.7	44.4
00:15:00:20 HOUR	45.7	44.4
00:20:00:25 HOUR	48.4	45.0
00:25:00:30 HOUR	51.0	45.9
00:30:00:35 HOUR	51.4	47.8
00:35:00:40 HOUR	48.2	45.8
00:40:00:45 HOUR	47.8	44.6
00:45:00:50 HOUR	46.2	44.3
00:50:00:55 HOUR	45.9	44.2
00:55:01:00 HOUR	46.1	44.9
01:00:01:05 HOUR	46.9	44.6
01:05:01:10 HOUR	46.3	44.8
01:10:01:15 HOUR	48.1	44.8
01:15:01:20 HOUR	48.8	45.1
01:20:01:25 HOUR	47.9	45.1
01:25:01:30 HOUR	48.7	45.4
01:30:01:35 HOUR	46.4	45.1
01:35:01:40 HOUR	46.2	45.5
01:40:01:45 HOUR	46.3	45.5
01:45:01:50 HOUR	47.2	45.8
01:50:01:55 HOUR	46.5	46.1
01:55:02:00 HOUR	49.9	46.0
02:00:02:05 HOUR	47.2	45.9
02:05:02:10 HOUR	47.5	45.7
02:10:02:15 HOUR	48.9	45.8
02:15:02:20 HOUR	46.8	45.8
02:20:02:25 HOUR	46.8	45.5
02:25:02:30 HOUR	47.7	45.8
02:30:02:35 HOUR	48.0	45.8
02:35:02:40 HOUR	46.8	45.5
02:40:02:45 HOUR	47.7	46.2
02:45:02:50 HOUR	46.9	45.6
02:50:02:55 HOUR	46.4	45.5
02:55:03:00 HOUR	50.8	45

TIME*	RESULT dB(A)	
	1000THIRDSOURCE	13446445-0083
00:00-00:05 HOUR	31.2	46.1
00:05-00:10 HOUR	40.2	44.4
00:10-00:15 HOUR	47.8	45.0
00:15-00:20 HOUR	47.2	42.3
00:20-00:25 HOUR	50.9	44.0
00:25-00:30 HOUR	46.1	44.0
00:30-00:35 HOUR	47.6	45.4
00:35-00:40 HOUR	47.1	45.2
00:40-00:45 HOUR	48.0	45.9
00:45-00:50 HOUR	48.1	46.7
00:50-00:55 HOUR	48.0	46.0
00:55-01:00 HOUR	46.8	44.8
01:00-01:05 HOUR	48.1	45.0
01:05-01:10 HOUR	46.4	44.4
01:10-01:15 HOUR	47.4	45.5
01:15-01:20 HOUR	48.0	46.3
01:20-01:25 HOUR	47.1	45.5
01:25-01:30 HOUR	47.8	45.9
01:30-01:35 HOUR	46.8	45.3
01:35-01:40 HOUR	47.5	46.5
01:40-01:45 HOUR	48.3	46.4
01:45-01:50 HOUR	50.1	47.5
01:50-01:55 HOUR	49.2	47.6
01:55-02:00 HOUR	48.2	46.4
02:00-02:05 HOUR	48.9	46.9
02:05-02:10 HOUR	51.6	48.1
02:10-02:15 HOUR	49.8	48.3
02:15-02:20 HOUR	50.9	48.8
02:20-02:25 HOUR	50.1	47.9
02:25-02:30 HOUR	49.8	47.9
02:30-02:35 HOUR	50.9	48.1
02:35-02:40 HOUR	49.8	48.7
02:40-02:45 HOUR	50.5	48.2
02:45-02:50 HOUR	50.9	48.7
02:50-02:55 HOUR	55.0	48.8
02:55-03:00 HOUR	51.3	49.0
03:00-03:05 HOUR	51.8	50.0
03:05-03:10 HOUR	53.5	50.2
03:10-03:15 HOUR	51.5	50.0
03:15-03:20 HOUR	51.6	49.0
03:20-03:25 HOUR	51.5	49.2
03:25-03:30 HOUR	51.5	49.9
03:30-03:35 HOUR	51.8	50.2
03:35-03:40 HOUR	54.7	50.5
03:40-03:45 HOUR	54.1	50.6
03:45-03:50 HOUR	53.4	51.3
03:50-03:55 HOUR	53.5	51.5
03:55-04:00 HOUR	52.0	50.6
04:00-04:05 HOUR	52.9	50.7
04:05-04:10 HOUR	51.8	50.4
04:10-04:15 HOUR	52.0	50.0



TIME*	RESULT (R/A)	
	Lang 8 min	Lang 1 min
14:15-14:20 HOUR	54.8	52.5
14:20-14:25 HOUR	54.8	51.5
14:25-14:30 HOUR	54.8	51.6
14:30-14:35 HOUR	54.8	51.8
14:35-14:40 HOUR	55.1	51.4
14:40-14:45 HOUR	55.1	51.6
14:45-14:50 HOUR	55.3	52.2
14:50-14:55 HOUR	56.3	52.9
14:55-15:00 HOUR	56.4	52.1
15:00-15:05 HOUR	56.3	50.5
15:05-15:10 HOUR	54.9	49.6
15:10-15:15 HOUR	54.8	50.2
15:15-15:20 HOUR	52.1	50.0
15:20-15:25 HOUR	54.6	49.3
15:25-15:30 HOUR	53.1	50.1
15:30-15:35 HOUR	55.3	51.5
15:35-15:40 HOUR	56.6	50.6
15:40-15:45 HOUR	54.3	51.6
15:45-15:50 HOUR	54.4	53.4
15:50-15:55 HOUR	57.0	53.2
15:55-16:00 HOUR	57.1	53.7
16:00-16:05 HOUR	57.6	53.1
16:05-16:10 HOUR	56.6	55.5
16:10-16:15 HOUR	58.2	53.7
16:15-16:20 HOUR	55.0	52.8
16:20-16:25 HOUR	51.2	51.2
16:25-16:30 HOUR	52.2	52.0
16:30-16:35 HOUR	52.2	52.2
16:35-16:40 HOUR	52.7	50.9
16:40-16:45 HOUR	52.2	50.6
16:45-16:50 HOUR	52.3	50.8
16:50-16:55 HOUR	51.7	51.3
16:55-17:00 HOUR	51.9	52.3
17:00-17:05 HOUR	51.9	52.3
17:05-17:10 HOUR	51.9	52.4
17:10-17:15 HOUR	51.7	51.1
17:15-17:20 HOUR	54.1	52.0
17:20-17:25 HOUR	52.4	51.5
17:25-17:30 HOUR	55.1	51.2
17:30-17:35 HOUR	56.2	54.7
17:35-17:40 HOUR	55.0	53.8
17:40-17:45 HOUR	56.7	53.5
17:45-17:50 HOUR	58.7	53.2
17:50-17:55 HOUR	57.2	53.6
17:55-18:00 HOUR	54.6	53.5
18:00-18:05 HOUR	54.8	51.6
18:05-18:10 HOUR	53.8	52.0
18:10-18:15 HOUR	54.1	52.7
18:15-18:20 HOUR	54.4	53.1
18:20-18:25 HOUR	55.0	51.2
18:25-18:30 HOUR	54.1	52.7

TIME*	RESULT (R/A)	
	Lang 8 min	Lang 1 min
18:30-18:35 HOUR	56.6	53.5
18:35-18:40 HOUR	57.4	53.1
18:40-18:45 HOUR	55.8	54.0
18:45-18:50 HOUR	56.8	53.4
18:50-18:55 HOUR	54.1	52.6
18:55-19:00 HOUR	53.5	52.3
19:00-19:05 HOUR	53.9	52.5
19:05-19:10 HOUR	54.0	52.8
19:10-19:15 HOUR	53.9	52.5
19:15-19:20 HOUR	53.9	52.7
19:20-19:25 HOUR	57.0	53.3
19:25-19:30 HOUR	55.1	53.0
19:30-19:35 HOUR	54.2	52.9
19:35-19:40 HOUR	55.8	52.7
19:40-19:45 HOUR	53.9	52.7
19:45-19:50 HOUR	54.4	52.7
19:50-19:55 HOUR	53.6	52.3
19:55-20:00 HOUR	53.4	53.4
20:00-20:05 HOUR	53.2	52.2
20:05-20:10 HOUR	53.4	52.1
20:10-20:15 HOUR	54.2	52.3
20:15-20:20 HOUR	53.5	52.6
20:20-20:25 HOUR	52.8	51.3
20:25-20:30 HOUR	53.3	51.7
20:30-20:35 HOUR	52.5	51.3
20:35-20:40 HOUR	54.2	51.4
20:40-20:45 HOUR	55.2	51.0
20:45-20:50 HOUR	52.8	50.7
20:50-20:55 HOUR	51.7	50.6
20:55-21:00 HOUR	52.0	50.8
21:00-21:05 HOUR	51.7	50.4
21:05-21:10 HOUR	51.7	50.4
21:10-21:15 HOUR	51.9	50.5
21:15-21:20 HOUR	52.0	50.5
21:20-21:25 HOUR	51.4	50.4
21:25-21:30 HOUR	51.2	49.9
21:30-21:35 HOUR	50.8	49.5
21:35-21:40 HOUR	50.7	49.5
21:40-21:45 HOUR	50.9	49.2
21:45-21:50 HOUR	51.0	49.8
21:50-21:55 HOUR	51.3	49.6
21:55-22:00 HOUR	51.0	50.3
22:00-22:05 HOUR	50.8	50.1
22:05-22:10 HOUR	51.2	50.3
22:10-22:15 HOUR	51.3	50.2
22:15-22:20 HOUR	50.6	49.8
22:20-22:25 HOUR	50.2	49.5
22:25-22:30 HOUR	51.4	49.5
22:30-22:35 HOUR	53.8	49.7
22:35-22:40 HOUR	50.5	49.6
22:40-22:45 HOUR	51.4	49.5



TIME*	RESULT dB(A)	
	NOISE MEASUREMENT	TIME
	MARCH 23 - 24, 2024	T2460415-0004
21:45-22:50 HOUR	51.5	45.8
22:50-23:55 HOUR	50.3	45.2
23:55-24:00 HOUR	51.0	46.4
24:00-24:05 HOUR	50.0	46.0
24:05-24:10 HOUR	49.7	46.9
24:10-24:15 HOUR	50.6	46.0
24:15-24:20 HOUR	50.2	46.1
24:20-24:25 HOUR	49.8	46.7
24:25-24:30 HOUR	49.8	46.5
24:30-24:35 HOUR	51.5	47.9
24:35-24:40 HOUR	56.0	47.7
24:40-24:45 HOUR	49.8	47.3
24:45-24:50 HOUR	48.8	47.1
24:50-24:55 HOUR	50.6	47.7
24:55-25:00 HOUR	49.7	46.1
25:00-25:05 HOUR	53.3	46.9
25:05-25:10 HOUR	49.0	46.3
25:10-25:15 HOUR	47.6	46.5
25:15-25:20 HOUR	48.3	46.7
25:20-25:25 HOUR	49.4	47.0
25:25-25:30 HOUR	48.1	46.7
25:30-25:35 HOUR	49.2	47.1
25:35-25:40 HOUR	49.0	47.4
25:40-25:45 HOUR	49.1	47.7
25:45-25:50 HOUR	49.3	47.6
25:50-25:55 HOUR	49.0	47.8
25:55-26:00 HOUR	52.1	47.4
26:00-26:05 HOUR	51.2	48.1
26:05-26:10 HOUR	50.0	48.2
26:10-26:15 HOUR	49.0	48.0
26:15-26:20 HOUR	55.9	47.9
26:20-26:25 HOUR	50.2	48.4
26:25-26:30 HOUR	48.0	46.3
26:30-26:35 HOUR	52.5	46.6
26:35-26:40 HOUR	48.5	48.2
26:40-26:45 HOUR	48.8	47.9
26:45-26:50 HOUR	49.2	48.0
26:50-26:55 HOUR	48.4	47.8
26:55-27:00 HOUR	48.2	47.9
27:00-27:05 HOUR	48.5	47.1
27:05-27:10 HOUR	48.7	47.2
27:10-27:15 HOUR	48.2	46.4
27:15-27:20 HOUR	48.1	46.0
27:20-27:25 HOUR	49.0	46.8
27:25-27:30 HOUR	49.0	46.8
27:30-27:35 HOUR	49.0	46.8
27:35-27:40 HOUR	48.7	46.3
27:40-27:45 HOUR	48.7	46.3
27:45-27:50 HOUR	48.3	46.5
27:50-27:55 HOUR	48.3	46.2

TIME*	RESULT dB(A)	
	NOISE MEASUREMENT	TIME
	MARCH 23 - 24, 2024	T2460415-0004
03:30-03:35 HOUR	46.8	45.3
03:35-03:40 HOUR	47.4	45.8
03:40-03:45 HOUR	46.8	45.2
03:45-03:50 HOUR	47.2	46.0
03:50-03:55 HOUR	47.8	45.3
03:55-04:00 HOUR	46.4	44.8
04:00-04:05 HOUR	46.4	44.5
04:05-04:10 HOUR	47.4	44.8
04:10-04:15 HOUR	46.3	44.2
04:15-04:20 HOUR	46.8	44.6
04:20-04:25 HOUR	46.8	44.7
04:25-04:30 HOUR	46.8	44.9
04:30-04:35 HOUR	47.4	45.6
04:35-04:40 HOUR	47.9	45.5
04:40-04:45 HOUR	46.8	44.5
04:45-04:50 HOUR	46.5	44.9
04:50-04:55 HOUR	46.3	45.2
04:55-05:00 HOUR	46.3	45.3
05:00-05:05 HOUR	46.3	45.9
05:05-05:10 HOUR	46.8	45.9
05:10-05:15 HOUR	46.8	45.7
05:15-05:20 HOUR	47.4	46.0
05:20-05:25 HOUR	47.3	46.2
05:25-05:30 HOUR	47.5	46.2
05:30-05:35 HOUR	47.5	46.2
05:35-05:40 HOUR	47.7	46.6
05:40-05:45 HOUR	47.5	46.5
05:45-05:50 HOUR	47.7	46.6
05:50-05:55 HOUR	47.8	46.5
05:55-06:00 HOUR	47.8	46.7
06:00-06:05 HOUR	48.4	46.8
06:05-06:10 HOUR	48.4	47.5
06:10-06:15 HOUR	48.7	47.5
06:15-06:20 HOUR	48.6	47.2
06:20-06:25 HOUR	48.2	47.1
06:25-06:30 HOUR	48.5	47.3
06:30-06:35 HOUR	48.3	47.6
06:35-06:40 HOUR	48.7	47.7
06:40-06:45 HOUR	48.3	48.4
06:45-06:50 HOUR	48.3	48.4
06:50-06:55 HOUR	48.3	48.4
06:55-07:00 HOUR	48.3	48.4
07:00-07:05 HOUR	48.3	48.4
07:05-07:10 HOUR	48.3	48.5
07:10-07:15 HOUR	48.3	48.5



TIME*	RESULT dB(A)	
	Lang 3 min	Lang 5 min
07:15-07:20 HOUR	50.4	48.5
07:20-07:25 HOUR	50.5	48.7
07:25-07:30 HOUR	51.8	49.2
07:30-07:35 HOUR	51.6	49.5
07:35-07:40 HOUR	51.4	48.6
07:40-07:45 HOUR	51.1	48.4
07:45-07:50 HOUR	51.0	48.1
07:50-07:55 HOUR	52.2	48.1
07:55-08:00 HOUR	53.7	48.1
08:00-08:05 HOUR	49.9	47.2
08:05-08:10 HOUR	49.2	48.9
08:10-08:15 HOUR	49.8	47.6
08:15-08:20 HOUR	50.5	47.7
08:20-08:25 HOUR	51.0	47.6
08:25-08:30 HOUR	50.6	47.6
08:30-08:35 HOUR	49.8	48.0
08:35-08:40 HOUR	49.7	47.9
08:40-08:45 HOUR	52.7	49.0
08:45-08:50 HOUR	52.9	49.6
08:50-08:55 HOUR	53.2	48.3
08:55-09:00 HOUR	52.6	48.8
09:00-09:05 HOUR	51.5	47.5
09:05-09:10 HOUR	57.0	47.2
09:10-09:15 HOUR	50.8	48.5
09:15-09:20 HOUR	54.0	48.5
09:20-09:25 HOUR	50.2	47.7
09:25-09:30 HOUR	51.4	48.9
09:30-09:35 HOUR	54.4	51.8
09:35-09:40 HOUR	56.1	51.2
09:40-09:45 HOUR	54.1	51.5
09:45-09:50 HOUR	51.4	49.6
09:50-09:55 HOUR	51.1	47.7
09:55-10:00 HOUR	49.4	47.3

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24/3

2024-0827044

TIME*	RESULT dB(A)	
	Lang 3 min	Lang 5 min
10:00-10:05 HOUR	49.7	46.7
10:05-10:10 HOUR	52.7	47.4
10:10-10:15 HOUR	53.5	48.6
10:15-10:20 HOUR	50.6	46.0
10:20-10:25 HOUR	50.3	46.0
10:25-10:30 HOUR	50.4	46.3
10:30-10:35 HOUR	51.8	49.6
10:35-10:40 HOUR	51.0	48.0
10:40-10:45 HOUR	49.8	48.9
10:45-10:50 HOUR	50.5	48.1
10:50-10:55 HOUR	49.5	47.7
10:55-11:00 HOUR	51.1	48.2
11:00-11:05 HOUR	51.5	48.6
11:05-11:10 HOUR	49.9	47.9
11:10-11:15 HOUR	49.8	48.1
11:15-11:20 HOUR	50.7	47.8
11:20-11:25 HOUR	49.7	47.9
11:25-11:30 HOUR	50.2	48.3
11:30-11:35 HOUR	49.2	47.6
11:35-11:40 HOUR	50.9	47.8
11:40-11:45 HOUR	50.3	48.5
11:45-11:50 HOUR	50.0	47.8
11:50-11:55 HOUR	52.4	48.1
11:55-12:00 HOUR	49.9	48.3
12:00-12:05 HOUR	50.2	48.2
12:05-12:10 HOUR	54.7	49.0
12:10-12:15 HOUR	49.9	48.1
12:15-12:20 HOUR	51.1	48.8
12:20-12:25 HOUR	51.2	49.2
12:25-12:30 HOUR	50.5	48.6
12:30-12:35 HOUR	51.0	48.4
12:35-12:40 HOUR	50.5	48.3
12:40-12:45 HOUR	51.2	48.4
12:45-12:50 HOUR	49.8	48.0
12:50-12:55 HOUR	50.7	48.3
12:55-13:00 HOUR	49.8	47.8
13:00-13:05 HOUR	51.2	48.2
13:05-13:10 HOUR	50.4	47.7
13:10-13:15 HOUR	51.1	48.6
13:15-13:20 HOUR	50.9	47.9
13:20-13:25 HOUR	51.6	48.4
13:25-13:30 HOUR	50.5	48.6
13:30-13:35 HOUR	50.4	48.8
13:35-13:40 HOUR	54.1	48.5
13:40-13:45 HOUR	52.0	48.1
13:45-13:50 HOUR	53.3	48.8
13:50-13:55 HOUR	54.6	50.8
13:55-14:00 HOUR	53.0	51.7
14:00-14:05 HOUR	53.6	51.7
14:05-14:10 HOUR	53.5	51.4
14:10-14:15 HOUR	53.7	51.3

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25/3

2024-0827044

TIME*		RESULT (dB(A))	
		QUANTIFICATION	
		MARCH 24 - 25, 2024	
		T346G415-0005	
		Lag 3 min	Lag 5 min
14:15-14:20 HOUR		53.9	51.9
14:20-14:25 HOUR		56.9	51.9
14:25-14:30 HOUR		54.6	51.6
14:30-14:35 HOUR		53.6	51.6
14:35-14:40 HOUR		51.5	51.2
14:40-14:45 HOUR		51.3	50.3
14:45-14:50 HOUR		52.9	50.9
14:50-14:55 HOUR		53.8	52.0
14:55-15:00 HOUR		54.0	52.3
15:00-15:05 HOUR		53.7	52.2
15:05-15:10 HOUR		54.0	51.4
15:10-15:15 HOUR		54.1	51.4
15:15-15:20 HOUR		53.8	50.7
15:20-15:25 HOUR		53.7	49.6
15:25-15:30 HOUR		53.8	49.5
15:30-15:35 HOUR		54.5	49.2
15:35-15:40 HOUR		52.4	49.4
15:40-15:45 HOUR		50.9	46.7
15:45-15:50 HOUR		50.8	46.8
15:50-15:55 HOUR		49.6	46.2
15:55-16:00 HOUR		50.0	47.5
16:00-16:05 HOUR		48.4	46.4
16:05-16:10 HOUR		48.9	47.5
16:10-16:15 HOUR		49.4	47.5
16:15-16:20 HOUR		50.0	47.9
16:20-16:25 HOUR		50.3	47.8
16:25-16:30 HOUR		50.2	46.7
16:30-16:35 HOUR		49.1	46.8
16:35-16:40 HOUR		50.8	46.7
16:40-16:45 HOUR		49.7	47.1
16:45-16:50 HOUR		50.5	47.5
16:50-16:55 HOUR		49.4	47.2
16:55-17:00 HOUR		48.1	47.5
17:00-17:05 HOUR		50.1	48.0
17:05-17:10 HOUR		50.1	47.4
17:10-17:15 HOUR		50.2	48.4
17:15-17:20 HOUR		50.5	48.1
17:20-17:25 HOUR		48.9	47.4
17:25-17:30 HOUR		48.9	47.6
17:30-17:35 HOUR		51.3	47.6
17:35-17:40 HOUR		51.0	48.3
17:40-17:45 HOUR		50.5	48.1
17:45-17:50 HOUR		51.0	48.5
17:50-17:55 HOUR		50.0	47.5
17:55-18:00 HOUR		50.9	48.7
18:00-18:05 HOUR		51.0	48.6
18:05-18:10 HOUR		50.0	47.5
18:10-18:15 HOUR		50.3	47.5
18:15-18:20 HOUR		52.1	48.8
18:20-18:25 HOUR		53.5	49.2
18:25-18:30 HOUR		53.1	48.5

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28/30

2024-U027044

TIME*		RESULT (dB(A))	
		QUANTIFICATION	
		MARCH 24 - 25, 2024	
		T346G415-0005	
		Lag 3 min	Lag 5 min
18:30-18:35 HOUR		53.3	49.3
18:35-18:40 HOUR		50.3	49.0
18:40-18:45 HOUR		51.0	49.4
18:45-18:50 HOUR		50.9	49.5
18:50-18:55 HOUR		50.5	48.5
18:55-19:00 HOUR		50.8	48.6
19:00-19:05 HOUR		51.5	48.3
19:05-19:10 HOUR		50.6	48.7
19:10-19:15 HOUR		51.3	48.5
19:15-19:20 HOUR		51.0	48.3
19:20-19:25 HOUR		52.4	48.4
19:25-19:30 HOUR		51.8	48.2
19:30-19:35 HOUR		52.0	48.5
19:35-19:40 HOUR		51.8	50.0
19:40-19:45 HOUR		52.5	50.4
19:45-19:50 HOUR		52.0	49.6
19:50-19:55 HOUR		50.2	48.9
19:55-20:00 HOUR		48.5	48.2
20:00-20:05 HOUR		50.6	48.3
20:05-20:10 HOUR		50.2	48.8
20:10-20:15 HOUR		49.4	48.3
20:15-20:20 HOUR		50.4	48.3
20:20-20:25 HOUR		49.5	48.3
20:25-20:30 HOUR		51.5	48.1
20:30-20:35 HOUR		51.4	48.6
20:35-20:40 HOUR		50.8	49.0
20:40-20:45 HOUR		50.8	48.2
20:45-20:50 HOUR		50.2	48.9
20:50-20:55 HOUR		50.0	48.9
20:55-21:00 HOUR		50.5	48.8
21:00-21:05 HOUR		50.0	48.7
21:05-21:10 HOUR		50.0	48.6
21:10-21:15 HOUR		51.8	49.7
21:15-21:20 HOUR		51.8	50.3
21:20-21:25 HOUR		49.7	48.4
21:25-21:30 HOUR		51.8	48.3
21:30-21:35 HOUR		51.2	49.4
21:35-21:40 HOUR		54.6	50.3
21:40-21:45 HOUR		51.1	49.4
21:45-21:50 HOUR		51.3	49.3
21:50-21:55 HOUR		51.4	50.1
21:55-22:00 HOUR		52.7	49.5
22:00-22:05 HOUR		48.6	47.7
22:05-22:10 HOUR		49.0	47.8
22:15-22:20 HOUR		49.5	47.8
22:20-22:25 HOUR		48.6	47.2
22:25-22:30 HOUR		49.0	47.6
22:30-22:35 HOUR		48.4	47.5
22:35-22:40 HOUR		48.3	47.4
22:40-22:45 HOUR		51.3	47.5

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2024-U027044

TIME*	RESULT (B/A)	
	Long 5 min	Long 1 min
22:55-23:00 HOUR	48.0	47.0
23:00-23:05 HOUR	48.2	47.2
23:05-23:10 HOUR	48.2	47.0
23:10-23:15 HOUR	48.1	47.3
23:15-23:20 HOUR	48.6	47.4
23:20-23:25 HOUR	48.6	47.4
23:25-23:30 HOUR	48.3	46.9
23:30-23:35 HOUR	48.5	47.3
23:35-23:40 HOUR	48.5	46.4
23:40-23:45 HOUR	48.7	46.6
23:45-23:50 HOUR	48.6	47.1
23:50-23:55 HOUR	48.5	47.0
23:55-00:00 HOUR	48.4	46.8
00:00-00:05 HOUR	48.0	47.4
00:05-00:10 HOUR	48.3	46.5
00:10-00:15 HOUR	48.5	46.5
00:15-00:20 HOUR	48.1	46.7
00:20-00:25 HOUR	47.7	46.6
00:25-00:30 HOUR	47.4	46.2
00:30-00:35 HOUR	48.1	46.8
00:35-00:40 HOUR	48.9	46.5
00:40-00:45 HOUR	52.2	48.2
00:45-00:50 HOUR	50.1	47.1
00:50-00:55 HOUR	48.5	46.8
00:55-01:00 HOUR	51.0	47.7
01:00-01:05 HOUR	48.5	46.3
01:05-01:10 HOUR	48.9	45.7
01:10-01:15 HOUR	46.7	45.7
01:15-01:20 HOUR	47.1	46.1
01:20-01:25 HOUR	46.6	45.7
01:25-01:30 HOUR	47.1	45.7
01:30-01:35 HOUR	47.2	45.8
01:35-01:40 HOUR	47.0	46.2
01:40-01:45 HOUR	47.9	46.2
01:45-01:50 HOUR	50.4	46.5
01:50-01:55 HOUR	47.7	45.9
01:55-02:00 HOUR	48.4	46.2
02:00-02:05 HOUR	49.3	46.4
02:05-02:10 HOUR	47.7	46.4
02:10-02:15 HOUR	52.5	48.8
02:15-02:20 HOUR	52.6	45.8
02:20-02:25 HOUR	51.6	46.6
02:25-02:30 HOUR	52.9	45.4
02:30-02:35 HOUR	52.2	46.9
02:35-02:40 HOUR	51.4	46.4
02:40-02:45 HOUR	51.0	46.4
02:45-02:50 HOUR	51.0	46.0
02:50-02:55 HOUR	50.5	46.6
02:55-03:00 HOUR	49.9	46.4

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NO EXCESS LITERS  
NO EXCESS CUBIC  
NO EXCESS POUNDS (LBS)

20/20

2024-03-27-044

TIME*	RESULT (B/A)	
	Long 5 min	Long 1 min
03:00-03:05 HOUR	49.3	45.0
03:05-03:10 HOUR	46.9	45.8
03:10-03:15 HOUR	47.2	45.9
03:15-03:20 HOUR	46.5	46.1
03:20-03:25 HOUR	46.7	46.1
03:25-03:30 HOUR	50.8	47.0
03:30-03:35 HOUR	46.8	46.8
03:35-03:40 HOUR	48.1	46.4
03:40-03:45 HOUR	48.2	46.9
03:45-03:50 HOUR	47.1	45.8
03:50-03:55 HOUR	47.3	45.9
03:55-04:00 HOUR	47.6	46.2
04:00-04:05 HOUR	47.1	45.8
04:05-04:10 HOUR	47.6	46.6
04:10-04:15 HOUR	50.1	46.9
04:15-04:20 HOUR	51.0	46.5
04:20-04:25 HOUR	48.4	46.7
04:25-04:30 HOUR	48.1	47.0
04:30-04:35 HOUR	47.8	46.7
04:35-04:40 HOUR	48.7	47.0
04:40-04:45 HOUR	49.1	47.0
04:45-04:50 HOUR	51.7	47.6
04:50-04:55 HOUR	51.8	50.5
04:55-05:00 HOUR	53.8	48.4
05:00-05:05 HOUR	52.0	49.7
05:05-05:10 HOUR	53.9	50.4
05:10-05:15 HOUR	53.8	51.8
05:15-05:20 HOUR	54.1	52.4
05:20-05:25 HOUR	53.9	52.6
05:25-05:30 HOUR	53.0	54.4
05:30-05:35 HOUR	53.4	50.6
05:35-05:40 HOUR	56.4	52.3
05:40-05:45 HOUR	53.7	53.2
05:45-05:50 HOUR	52.5	53.6
05:50-05:55 HOUR	55.8	54.3
05:55-06:00 HOUR	56.2	54.5
06:00-06:05 HOUR	56.4	55.0
06:05-06:10 HOUR	56.8	54.9
06:10-06:15 HOUR	55.7	53.7
06:15-06:20 HOUR	56.0	54.0
06:20-06:25 HOUR	56.2	54.1
06:25-06:30 HOUR	55.9	54.2
06:30-06:35 HOUR	54.7	53.3
06:35-06:40 HOUR	52.8	52.0
06:40-06:45 HOUR	55.0	53.9
06:45-06:50 HOUR	52.7	48.5
06:50-06:55 HOUR	53.2	46.7
06:55-07:00 HOUR	53.0	45.1
07:00-07:05 HOUR	50.5	46.4
07:05-07:10 HOUR	51.1	48.0
07:10-07:15 HOUR	52.1	45.9

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NO EXCESS LITERS  
NO EXCESS CUBIC  
NO EXCESS POUNDS (LBS)

20/20

2024-03-27-044



TIME*	RESULT (dB(A))	
	Leq 5 min	Leq 1 min
07:15-07:20 HOUR	58.2	50.0
07:20-07:25 HOUR	51.3	45.3
07:25-07:30 HOUR	52.2	45.4
07:30-07:35 HOUR	53.0	45.5
07:35-07:40 HOUR	52.4	45.4
07:40-07:45 HOUR	53.2	46.0
07:45-07:50 HOUR	53.6	46.4
07:50-07:55 HOUR	53.1	46.0
07:55-08:00 HOUR	52.9	46.1
08:00-08:05 HOUR	48.7	46.9
08:05-08:10 HOUR	53.2	47.7
08:10-08:15 HOUR	53.6	48.8
08:15-08:20 HOUR	52.8	47.0
08:20-08:25 HOUR	52.6	46.9
08:25-08:30 HOUR	53.1	47.1
08:30-08:35 HOUR	54.8	47.3
08:35-08:40 HOUR	56.2	47.2
08:40-08:45 HOUR	54.4	46.5
08:45-08:50 HOUR	56.8	47.3
08:50-08:55 HOUR	55.1	46.7
08:55-09:00 HOUR	52.1	46.2
09:00-09:05 HOUR	48.5	46.8
09:05-09:10 HOUR	51.2	46.2
09:10-09:15 HOUR	52.4	46.1
09:15-09:20 HOUR	51.4	46.2
09:20-09:25 HOUR	51.1	46.0
09:25-09:30 HOUR	49.8	46.6
09:30-09:35 HOUR	48.9	46.1
09:35-09:40 HOUR	50.9	46.3
09:40-09:45 HOUR	49.7	46.0
09:45-09:50 HOUR	49.7	46.6
09:50-09:55 HOUR	50.1	46.6
09:55-10:00 HOUR	51.8	46.7

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(MR. SULA BALDONGMUNJUN)  
LABORATORY SUPERVISOR

MARCH 26, 2024

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2024-0227044

- End of Analysis Report -

TIME*	RESULT (dB(A))	
	Leq 1 hour	Leq 1 hour
10:00-11:00 HOUR	56.9	81.0
11:00-12:00 HOUR	65.9	91.8
12:00-13:00 HOUR	47.5	68.3
13:00-14:00 HOUR	60.2	86.8
14:00-15:00 HOUR	55.6	82.1
15:00-16:00 HOUR	53.3	73.5
16:00-17:00 HOUR	53.3	76.5
17:00-18:00 HOUR	56.3	78.1
18:00-19:00 HOUR	47.4	70.1
19:00-20:00 HOUR	46.3	71.1
20:00-21:00 HOUR	45.7	70.5
21:00-22:00 HOUR	45.8	74.3
22:00-23:00 HOUR	47.2	75.2
23:00-00:00 HOUR	40.0	67.1
00:00-01:00 HOUR	41.5	63.8
01:00-02:00 HOUR	42.7	70.9
02:00-03:00 HOUR	41.9	60.0
03:00-04:00 HOUR	42.9	70.0
04:00-05:00 HOUR	46.6	72.3
05:00-06:00 HOUR	49.2	72.1
06:00-07:00 HOUR	46.2	73.9
07:00-08:00 HOUR	53.0	71.2
08:00-09:00 HOUR	60.1	87.7
09:00-10:00 HOUR	65.4	87.7
Total 24 hours		55.8

PROJECT NAME : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
CUSTOMER NAME : CPT-CPT JOINT VENTURE  
ADDRESS : 555 BANGKOK TOWER 11TH FLOOR, PHASE 101-HIV ROAD, CHATUCHAK CHAIYU HAK BANGKOK 10900  
CONTACT INFORMATION : TEL: 091-989 1594 E-mail: info@laurae.com  
MEASURING SOURCE : TRANSMISSION LINE  
MEASURING TYPE : AMBIENT (NOISE)  
MEASURING DATE : MARCH 21-26, 2024  
MEASURING TIME :  
MEASURING METHOD : INTEGRATED SOUND LEVEL METER  
MEASURED BY : MR. SUPHACHON SUWASEE  
RECEIVED DATE : MARCH 21-26, 2024  
ANALYSIS DATE : MARCH 21-26, 2024  
ISSUE DATE : MARCH 26, 2024  
REPORT NO. : 2024-0227044  
WORK NO. : 2024-0227044  
ANALYSIS NO. : T24AG445-0006 - T24AG445-0010

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2024-0227044

- End of Analysis Report -

TIME*	RESULT dB(A)			
	T34AG415-0007			
	Long 1 hour	Long 8 hours	Long 16 hours	Long 24 hours
10:00-11:00 HOURS	59.5	-	87.3	46.8
11:00-12:00 HOURS	56.0	-	81.0	44.3
12:00-13:00 HOURS	48.3	-	71.7	37.0
13:00-14:00 HOURS	56.6	-	82.9	45.6
14:00-15:00 HOURS	60.9	-	89.3	48.3
15:00-16:00 HOURS	62.7	-	90.9	47.2
16:00-17:00 HOURS	59.5	-	77.6	45.0
17:00-18:00 HOURS	59.8	57.7	82.9	46.4
18:00-19:00 HOURS	54.3	-	88.4	39.8
19:00-20:00 HOURS	46.3	-	88.9	38.3
20:00-21:00 HOURS	44.8	-	79.6	37.0
21:00-22:00 HOURS	47.7	-	77.7	36.9
22:00-23:00 HOURS	44.0	-	89.3	35.8
23:00-00:00 HOURS	44.0	-	84.0	35.8
00:00-01:00 HOURS	40.8	-	78.5	39.3
01:00-02:00 HOURS	50.4	49.1	80.3	36.4
02:00-03:00 HOURS	41.4	-	56.1	36.6
03:00-04:00 HOURS	47.7	-	85.3	39.5
04:00-05:00 HOURS	53.5	-	84.8	40.1
05:00-06:00 HOURS	48.3	-	73.3	40.4
06:00-07:00 HOURS	50.8	-	78.7	42.2
07:00-08:00 HOURS	51.5	-	78.2	40.6
08:00-09:00 HOURS	54.3	-	72.6	39.5
09:00-10:00 HOURS	53.5	50.7	84.7	40.6
Long 24 hours	54.2			

TIME*	RESULT dB(A)			
	T34AG415-0008			
	Long 1 hour	Long 8 hours	Long 16 hours	Long 24 hours
10:00-11:00 HOURS	59.5	-	90.6	39.7
11:00-12:00 HOURS	60.6	-	81.8	40.2
12:00-13:00 HOURS	49.1	-	80.2	36.3
13:00-14:00 HOURS	56.1	-	81.8	44.1
14:00-15:00 HOURS	63.8	-	80.3	42.1
15:00-16:00 HOURS	53.4	-	75.0	39.3
16:00-17:00 HOURS	60.1	-	75.6	43.8
17:00-18:00 HOURS	50.5	57.4	73.1	41.8
18:00-19:00 HOURS	50.0	-	77.0	39.3
19:00-20:00 HOURS	48.7	-	77.2	39.7
20:00-21:00 HOURS	43.2	-	66.1	37.7
21:00-22:00 HOURS	43.9	-	72.9	38.8
22:00-23:00 HOURS	41.9	-	50.3	38.5
23:00-00:00 HOURS	41.7	-	50.4	38.1
00:00-01:00 HOURS	45.6	-	57.0	37.5
01:00-02:00 HOURS	45.6	45.3	56.4	37.7
02:00-03:00 HOURS	43.4	-	56.7	37.8
03:00-04:00 HOURS	40.9	-	63.1	37.8
04:00-05:00 HOURS	40.5	-	64.7	37.8
05:00-06:00 HOURS	44.5	-	68.0	39.3
06:00-07:00 HOURS	51.1	-	72.5	42.1
07:00-08:00 HOURS	52.4	-	75.3	42.0
08:00-09:00 HOURS	52.4	-	76.3	40.4
09:00-10:00 HOURS	50.6	48.9	72.4	40.6
Long 24 hours	53.4			

TIME*	RESULT dB(A)			
	จุดตรวจวัดเสียง			
	MARCH 24 - 25, 2024			
	Time 1 hour	Time 2 hour	Time 3 hour	Time 4 hour
10:00-11:00 HOUR	50.6	76.0	-	47.2
11:00-12:00 HOUR	65.2	97.3	47.2	47.2
12:00-13:00 HOUR	48.7	73.1	-	40.1
13:00-14:00 HOUR	47.8	68.6	-	36.1
14:00-15:00 HOUR	50.8	81.2	-	41.8
15:00-16:00 HOUR	46.4	64.9	-	41.2
16:00-17:00 HOUR	50.3	71.9	-	45.4
17:00-18:00 HOUR	49.4	71.0	46.1	46.1
18:00-19:00 HOUR	48.7	70.1	-	38.2
19:00-20:00 HOUR	67.2	75.1	-	59.1
20:00-21:00 HOUR	43.8	62.0	-	35.3
21:00-22:00 HOUR	54.4	68.8	-	37.0
22:00-23:00 HOUR	46.6	76.1	-	34.3
23:00-00:00 HOUR	45.3	74.4	-	34.2
00:00-01:00 HOUR	42.3	69.4	-	38.0
01:00-02:00 HOUR	41.7	66.8	48.2	37.6
02:00-03:00 HOUR	43.0	67.5	-	37.8
03:00-04:00 HOUR	47.4	68.4	-	38.4
04:00-05:00 HOUR	44.0	71.3	-	36.6
05:00-06:00 HOUR	44.8	71.5	-	36.8
06:00-07:00 HOUR	49.4	68.6	-	42.0
07:00-08:00 HOUR	51.4	75.1	-	42.3
08:00-09:00 HOUR	52.6	78.6	-	42.7
09:00-10:00 HOUR	51.9	81.1	49.4	42.6
Time 24 hour	53.3			

TIME*	RESULT dB(A)			
	จุดตรวจวัดเสียง			
	MARCH 25 - 26, 2024			
	Time 1 hour	Time 2 hour	Time 3 hour	Time 4 hour
10:00-11:00 HOUR	51.3	73.8	-	48.4
11:00-12:00 HOUR	51.7	74.0	-	47.9
12:00-13:00 HOUR	51.8	77.7	-	48.7
13:00-14:00 HOUR	49.8	66.1	-	47.7
14:00-15:00 HOUR	48.5	64.8	-	46.1
15:00-16:00 HOUR	47.3	68.2	-	44.8
16:00-17:00 HOUR	46.6	71.7	-	43.9
17:00-18:00 HOUR	48.5	78.5	46.9	44.1
18:00-19:00 HOUR	46.9	63.9	-	46.8
19:00-20:00 HOUR	47.2	65.1	-	44.8
20:00-21:00 HOUR	47.0	65.5	-	44.3
21:00-22:00 HOUR	48.5	57.9	-	46.9
22:00-23:00 HOUR	50.3	68.2	-	48.2
23:00-00:00 HOUR	51.5	62.0	-	45.5
00:00-01:00 HOUR	51.9	77.1	-	40.2
01:00-02:00 HOUR	54.6	79.8	56.6	47.5
02:00-03:00 HOUR	51.2	76.6	-	46.8
03:00-04:00 HOUR	57.3	77.6	-	46.1
04:00-05:00 HOUR	55.2	78.3	-	48.5
05:00-06:00 HOUR	58.4	71.9	-	53.4
06:00-07:00 HOUR	56.3	73.8	-	52.9
07:00-08:00 HOUR	57.2	71.6	-	50.4
08:00-09:00 HOUR	55.0	73.6	-	51.4
09:00-10:00 HOUR	52.5	82.4	57.3	51.1
Time 24 hour	54.0			

hid 78

(MR. SIA. BANGKONGKUN)  
 LABORATORY SUPERVISOR



## ANALYSIS REPORT

PROJECT NAME : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE

CUSTOMER NAME : PTT-CH99 JOINT VENTURE

ADDRESS : 155 RASA TOWER 1, JUTHITULORN, PHRAKULATHIN ROAD, CHATUCHAK DISTRICT BANGKOK 10900

CONTACT INFORMATION : TEL : 091-889-1944 E-mail : [info@uaeconsultant.com](mailto:info@uaeconsultant.com)

MEASURING SOURCE : [info@uaeconsultant.com](mailto:info@uaeconsultant.com)

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 21-26, 2024

MEASURING TIME : MARCH 23, 2024

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR SUPHAWORN SUMRER

WORK NO. : 1203-000633

ANALYSIS NO. : T24AG45-0006 - T24AG45-0009

RESULT dB(A)  
กรุงเทพมหานคร  
MARCH 21 - 22, 2024  
T24AG45-0006

TIME*	Lang 3 m	Lang 5 m	Lang 10 m
15:00-15:05 HOUR	52.5	47.3	46.2
15:05-15:10 HOUR	48.0		46.6
15:10-15:15 HOUR	46.0		46.3
15:15-15:20 HOUR	51.5	36.7	47.6
15:20-15:25 HOUR	52.9		47.6
15:25-15:30 HOUR	59.0		48.3
15:30-15:35 HOUR	59.4		52.0
15:35-15:40 HOUR	54.6		52.3
15:40-15:45 HOUR	57.7		53.3
15:45-15:50 HOUR	62.3		50.3
15:50-15:55 HOUR	57.0		51.7
15:55-16:00 HOUR	58.1		52.2
16:00-16:05 HOUR	57.0		49.1
16:05-16:10 HOUR	61.3		48.0
16:10-16:15 HOUR	67.2		60.6
16:15-16:20 HOUR	68.1		60.6
16:20-16:25 HOUR	67.8		60.0
16:25-16:30 HOUR	66.5		53.9
16:30-16:35 HOUR	67.4		64.2
16:35-16:40 HOUR	45.0		40.0
16:40-16:45 HOUR	48.6		41.4
16:45-16:50 HOUR	48.7		40.8
16:50-16:55 HOUR	46.1		40.3
16:55-17:00 HOUR	44.8		40.4
17:00-17:05 HOUR	46.1		41.9
17:05-17:10 HOUR	49.2		41.9
17:10-17:15 HOUR	47.6		42.1
17:15-17:20 HOUR	48.1		40.4
17:20-17:25 HOUR	45.4		39.6
17:25-17:30 HOUR	46.5		40.0
17:30-17:35 HOUR	44.9		39.5
17:35-17:40 HOUR	44.0		39.4
17:40-17:45 HOUR	36.5		40.3
17:45-17:50 HOUR	45.1		44.1
17:50-17:55 HOUR	49.3		44.1
17:55-18:00 HOUR	48.9		47.7
18:00-18:05 HOUR	49.3		47.8

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(P.2)

NO NOISE DETECTED  
NO NOISE DETECTED

NO NOISE DETECTED  
NO NOISE DETECTED

NO NOISE DETECTED  
NO NOISE DETECTED

## RESULT dB(A)

กรุงเทพมหานคร  
MARCH 21 - 22, 2024  
T24AG45-0006

TIME*	Lang 3 m	Lang 5 m	Lang 10 m
13:05-13:10 HOUR	50.8		46.2
13:10-13:15 HOUR	66.8		51.7
13:15-13:20 HOUR	59.8		46.9
13:20-13:25 HOUR	54.2		51.5
13:25-13:30 HOUR	55.1		51.2
13:30-13:35 HOUR	56.4		47.1
13:35-13:40 HOUR	54.8		49.2
13:40-13:45 HOUR	56.1		50.9
13:45-13:50 HOUR	57.1		49.5
13:50-13:55 HOUR	62.8		56.3
13:55-14:00 HOUR	63.7		55.1
14:00-14:05 HOUR	56.5		48.3
14:05-14:10 HOUR	58.2		46.6
14:10-14:15 HOUR	48.7		45.5
14:15-14:20 HOUR	48.8		45.2
14:20-14:25 HOUR	51.8		45.8
14:25-14:30 HOUR	57.4		45.3
14:30-14:35 HOUR	50.1		46.7
14:35-14:40 HOUR	60.8		50.0
14:40-14:45 HOUR	54.3		50.3
14:45-14:50 HOUR	58.1		50.9
14:50-14:55 HOUR	57.8		48.7
14:55-15:00 HOUR	50.3		49.8
15:00-15:05 HOUR	50.8		48.5
15:05-15:10 HOUR	53.3		48.6
15:10-15:15 HOUR	51.7		48.3
15:15-15:20 HOUR	50.7		48.2
15:20-15:25 HOUR	50.9		48.4
15:25-15:30 HOUR	51.8		48.7
15:30-15:35 HOUR	54.3		46.6
15:35-15:40 HOUR	53.8		46.8
15:40-15:45 HOUR	54.3		50.9
15:45-15:50 HOUR	52.6		51.3
15:50-15:55 HOUR	55.3		51.7
15:55-16:00 HOUR	56.4		51.9
16:00-16:05 HOUR	54.1		51.7
16:05-16:10 HOUR	54.9		51.2
16:10-16:15 HOUR	55.9		49.2
16:15-16:20 HOUR	56.1		47.7
16:20-16:25 HOUR	51.0		48.4
16:25-16:30 HOUR	56.1		47.4
16:30-16:35 HOUR	50.1		47.6
16:35-16:40 HOUR	50.3		48.7
16:40-16:45 HOUR	51.3		46.1
16:45-16:50 HOUR	50.8		48.8
16:50-16:55 HOUR	58.6		51.3
16:55-17:00 HOUR	54.2		52.8
17:00-17:05 HOUR	54.1		52.4
17:05-17:10 HOUR	53.8		52.4
17:10-17:15 HOUR	54.9		50.8
17:15-17:20 HOUR	52.8		50.1

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(P.2)

NO NOISE DETECTED  
NO NOISE DETECTED

NO NOISE DETECTED  
NO NOISE DETECTED

NO NOISE DETECTED  
NO NOISE DETECTED

2024-0027945

TIME*	RESULT (B/A)	
	Kursus/Industri/BBU	
	MARCH 21 - 22, 2024	
	T346G445-0006	
	Laq. 5 min	Laq. 2 min
17:30-17:35 HOUR	52.8	52.2
17:35-17:40 HOUR	51.2	50.1
17:40-17:45 HOUR	52.5	50.1
17:45-17:50 HOUR	52.0	49.9
17:50-17:55 HOUR	60.1	56.5
17:55-18:00 HOUR	53.8	47.4
18:00-18:05 HOUR	81.0	46.6
18:05-18:10 HOUR	60.2	41.7
18:10-18:15 HOUR	48.2	41.1
18:15-18:20 HOUR	46.9	40.9
18:20-18:25 HOUR	44.9	37.0
18:25-18:30 HOUR	46.4	38.3
18:30-18:35 HOUR	47.0	38.0
18:35-18:40 HOUR	51.7	40.6
18:40-18:45 HOUR	44.4	37.6
18:45-18:50 HOUR	45.7	36.8
18:50-18:55 HOUR	48.3	38.5
18:55-19:00 HOUR	50.1	37.4
19:00-19:05 HOUR	45.0	37.1
19:05-19:10 HOUR	46.3	35.9
19:10-19:15 HOUR	44.4	38.3
19:15-19:20 HOUR	43.2	38.5
19:20-19:25 HOUR	41.5	36.8
19:25-19:30 HOUR	48.0	37.8
19:30-19:35 HOUR	44.6	36.6
19:35-19:40 HOUR	45.4	36.8
19:40-19:45 HOUR	42.8	38.4
19:45-19:50 HOUR	40.1	38.2
19:50-19:55 HOUR	59.7	36.3
19:55-20:00 HOUR	41.7	36.8
20:00-20:05 HOUR	45.8	38.3
20:05-20:10 HOUR	44.4	37.6
20:10-20:15 HOUR	42.8	39.3
20:15-20:20 HOUR	45.6	38.3
20:20-20:25 HOUR	47.5	39.8
20:25-20:30 HOUR	48.7	39.3
20:30-20:35 HOUR	45.4	38.8
20:35-20:40 HOUR	45.7	41.1
20:40-20:45 HOUR	44.0	36.5
20:45-20:50 HOUR	43.6	36.9
20:50-20:55 HOUR	46.1	36.5
20:55-21:00 HOUR	42.9	36.1
21:00-21:05 HOUR	42.3	38.3
21:05-21:10 HOUR	42.0	38.0
21:10-21:15 HOUR	53.3	38.4
21:15-21:20 HOUR	43.5	37.7
21:20-21:25 HOUR	44.8	36.7
21:25-21:30 HOUR	42.3	38.1
21:30-21:35 HOUR	42.7	38.0

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BY: ANALYST (SIGNED)  
NO. ANALYST (SIGNED)  
UP TO: ANALYST (SIGNED) (SIGNED)

1/20

2024-U027045

TIME*	RESULT (B/A)	
	Kursus/Industri/BBU	
	MARCH 21 - 22, 2024	
	T346G445-0006	
	Laq. 5 min	Laq. 2 min
21:35-21:40 HOUR	59.6	35.6
21:40-21:45 HOUR	42.1	36.0
21:45-21:50 HOUR	45.4	36.7
21:50-21:55 HOUR	44.4	35.9
21:55-22:00 HOUR	39.0	35.5
22:00-22:05 HOUR	59.7	35.3
22:05-22:10 HOUR	40.9	36.1
22:10-22:15 HOUR	44.3	35.6
22:15-22:20 HOUR	41.3	35.3
22:20-22:25 HOUR	65.3	35.6
22:25-22:30 HOUR	40.2	34.3
22:30-22:35 HOUR	50.6	34.4
22:35-22:40 HOUR	40.7	34.6
22:40-22:45 HOUR	43.5	35.7
22:45-22:50 HOUR	41.9	35.0
22:50-22:55 HOUR	38.3	34.7
22:55-23:00 HOUR	41.0	35.3
23:00-23:05 HOUR	38.0	34.9
23:05-23:10 HOUR	40.2	36.2
23:10-23:15 HOUR	41.9	35.0
23:15-23:20 HOUR	40.1	34.8
23:20-23:25 HOUR	37.7	34.2
23:25-23:30 HOUR	45.4	35.2
23:30-23:35 HOUR	38.6	35.5
23:35-23:40 HOUR	42.0	35.7
23:40-23:45 HOUR	43.7	36.0
23:45-23:50 HOUR	48.9	36.3
23:50-23:55 HOUR	40.7	38.6
23:55-00:00 HOUR	41.2	38.5
00:00-00:05 HOUR	40.4	38.4
00:05-00:10 HOUR	41.3	38.8
00:10-00:15 HOUR	39.7	37.9
00:15-00:20 HOUR	38.3	36.7
00:20-00:25 HOUR	38.3	34.9
00:25-00:30 HOUR	59.0	37.3
00:30-00:35 HOUR	58.4	34.9
00:35-00:40 HOUR	47.3	38.1
00:40-00:45 HOUR	42.4	37.2
00:45-00:50 HOUR	39.8	37.6
00:50-00:55 HOUR	38.7	37.6
00:55-01:00 HOUR	41.2	38.1
01:00-01:05 HOUR	39.7	37.9
01:05-01:10 HOUR	38.6	37.4
01:10-01:15 HOUR	40.0	37.5
01:15-01:20 HOUR	41.9	37.8
01:20-01:25 HOUR	38.7	35.4
01:25-01:30 HOUR	38.9	37.8
01:30-01:35 HOUR	40.7	38.0
01:35-01:40 HOUR	40.4	38.1
01:40-01:45 HOUR	40.7	38.6
01:45-01:50 HOUR	40.9	39.0

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NO. ANALYST (SIGNED)  
UP TO: ANALYST (SIGNED) (SIGNED)

4/20

2024-U027045

TIME*	RESULT dBA	
	Time/Measurement	Result
	MARCH 21 - 22, 2024	
	T244-0445-0506	
01:50-01:55 HOURS	42.3	36.3
01:55-02:00 HOURS	42.8	36.1
02:00-02:05 HOURS	41.7	38.4
02:05-02:10 HOURS	42.9	36.7
02:10-02:15 HOURS	41.6	39.8
02:15-02:20 HOURS	42.2	38.8
02:20-02:25 HOURS	41.4	38.7
02:25-02:30 HOURS	42.9	38.8
02:30-02:35 HOURS	39.7	38.1
02:35-02:40 HOURS	44.0	38.3
02:40-02:45 HOURS	42.5	37.8
02:45-02:50 HOURS	41.4	37.6
02:50-02:55 HOURS	42.1	37.8
02:55-03:00 HOURS	42.1	37.4
03:00-03:05 HOURS	39.4	37.5
03:05-03:10 HOURS	48.5	38.6
03:10-03:15 HOURS	46.0	38.2
03:15-03:20 HOURS	46.2	38.2
03:20-03:25 HOURS	41.2	38.7
03:25-03:30 HOURS	44.3	38.7
03:30-03:35 HOURS	40.9	38.1
03:35-03:40 HOURS	42.5	38.9
03:40-03:45 HOURS	42.2	39.0
03:45-03:50 HOURS	40.7	38.6
03:50-03:55 HOURS	41.8	38.7
03:55-04:00 HOURS	43.1	38.5
04:00-04:05 HOURS	40.2	38.7
04:05-04:10 HOURS	48.4	38.9
04:10-04:15 HOURS	41.4	39.5
04:15-04:20 HOURS	40.2	38.8
04:20-04:25 HOURS	39.8	38.7
04:25-04:30 HOURS	40.4	38.9
04:30-04:35 HOURS	55.0	39.2
04:35-04:40 HOURS	45.0	39.6
04:40-04:45 HOURS	42.6	39.7
04:45-04:50 HOURS	42.8	39.4
04:50-04:55 HOURS	43.0	38.9
04:55-05:00 HOURS	42.5	40.3
05:00-05:05 HOURS	44.2	40.6
05:05-05:10 HOURS	41.7	40.3
05:10-05:15 HOURS	43.3	40.5
05:15-05:20 HOURS	43.7	40.0
05:20-05:25 HOURS	48.5	38.9
05:25-05:30 HOURS	43.9	40.0
05:30-05:35 HOURS	44.9	40.8
05:35-05:40 HOURS	47.1	40.5
05:40-05:45 HOURS	39.9	40.8
05:45-05:50 HOURS	35.0	41.1
05:50-05:55 HOURS	53.8	41.4
05:55-06:00 HOURS	45.3	41.1
06:00-06:05 HOURS	48.5	41.7

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5/31

3854-U027045

TIME*	RESULT dBA	
	Time/Measurement	Result
	MARCH 21 - 22, 2024	
	T244-0445-0506	
06:05-06:10 HOURS	48.4	41.0
06:10-06:15 HOURS	48.7	42.2
06:15-06:20 HOURS	47.2	41.2
06:20-06:25 HOURS	46.1	44.1
06:25-06:30 HOURS	46.6	41.1
06:30-06:35 HOURS	47.5	41.1
06:35-06:40 HOURS	47.4	40.7
06:40-06:45 HOURS	46.7	41.1
06:45-06:50 HOURS	53.0	42.3
06:50-06:55 HOURS	48.1	41.4
06:55-07:00 HOURS	47.2	40.9
07:00-07:05 HOURS	47.8	39.8
07:05-07:10 HOURS	51.1	46.6
07:10-07:15 HOURS	52.7	47.2
07:15-07:20 HOURS	58.7	47.3
07:20-07:25 HOURS	54.9	47.7
07:25-07:30 HOURS	54.1	47.5
07:30-07:35 HOURS	50.1	46.9
07:35-07:40 HOURS	46.8	46.6
07:40-07:45 HOURS	50.7	46.4
07:45-07:50 HOURS	52.7	46.6
07:50-07:55 HOURS	50.2	46.8
07:55-08:00 HOURS	50.7	46.5
08:00-08:05 HOURS	58.9	46.8
08:05-08:10 HOURS	51.9	47.1
08:10-08:15 HOURS	61.1	46.0
08:15-08:20 HOURS	59.7	46.9
08:20-08:25 HOURS	60.8	46.6
08:25-08:30 HOURS	61.0	48.5
08:30-08:35 HOURS	56.1	47.8
08:35-08:40 HOURS	57.0	46.6
08:40-08:45 HOURS	64.0	52.4
08:45-08:50 HOURS	63.1	49.9
08:50-08:55 HOURS	51.8	48.8
08:55-09:00 HOURS	61.4	50.7
09:00-09:05 HOURS	58.3	54.0
09:05-09:10 HOURS	56.9	54.1
09:10-09:15 HOURS	61.6	51.2
09:15-09:20 HOURS	66.0	51.3
09:20-09:25 HOURS	67.2	50.7
09:25-09:30 HOURS	68.8	55.9
09:30-09:35 HOURS	66.8	50.7
09:35-09:40 HOURS	61.1	48.4
09:40-09:45 HOURS	51.2	46.4
09:45-09:50 HOURS	50.1	50.0
09:50-09:55 HOURS	50.4	48.5
09:55-10:00 HOURS	50.2	48.2

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6/30

3854-U027045



TIME*	RESULTS (A)	
	NUM/NAME/ID/BU	MARCH 22 - 23, 2014
	T2-MARCH-0807	
	Line #	Line #
10:00-10:05 HOUR	50.8	51.2
10:05-10:10 HOUR	60.8	61.8
10:10-10:15 HOUR	55.1	62.0
10:15-10:20 HOUR	55.6	66.5
10:20-10:25 HOUR	55.1	48.7
10:25-10:30 HOUR	52.1	48.1
10:30-10:35 HOUR	52.2	48.4
10:35-10:40 HOUR	53.3	48.6
10:40-10:45 HOUR	52.6	47.0
10:45-10:50 HOUR	54.3	65.5
10:50-10:55 HOUR	56.8	66.0
10:55-11:00 HOUR	58.3	61.3
11:00-11:05 HOUR	47.2	56.7
11:05-11:10 HOUR	61.6	64.0
11:10-11:15 HOUR	59.5	63.5
11:15-11:20 HOUR	62.1	44.3
11:20-11:25 HOUR	48.1	65.0
11:25-11:30 HOUR	50.3	66.3
11:30-11:35 HOUR	49.3	45.8
11:35-11:40 HOUR	51.2	45.3
11:40-11:45 HOUR	45.6	65.2
11:45-11:50 HOUR	49.9	47.3
11:50-11:55 HOUR	51.1	61.5
11:55-12:00 HOUR	48.7	41.4
12:00-12:05 HOUR	50.0	41.3
12:05-12:10 HOUR	53.5	41.7
12:10-12:15 HOUR	47.1	37.5
12:15-12:20 HOUR	40.6	35.8
12:20-12:25 HOUR	43.5	36.4
12:25-12:30 HOUR	46.6	36.3
12:30-12:35 HOUR	41.8	35.6
12:35-12:40 HOUR	43.6	35.6
12:40-12:45 HOUR	46.6	37.7
12:45-12:50 HOUR	47.2	35.8
12:50-12:55 HOUR	52.3	37.8
12:55-13:00 HOUR	48.9	38.8
13:00-13:05 HOUR	52.9	39.2
13:05-13:10 HOUR	47.5	37.4
13:10-13:15 HOUR	46.9	39.4
13:15-13:20 HOUR	47.4	39.7
13:20-13:25 HOUR	47.7	43.4
13:25-13:30 HOUR	61.4	55.4
13:30-13:35 HOUR	60.5	55.8
13:35-13:40 HOUR	60.1	56.6
13:40-13:45 HOUR	57.2	56.7
13:45-13:50 HOUR	61.5	54.8
13:50-13:55 HOUR	58.0	45.7
13:55-14:00 HOUR	48.4	43.5
14:00-14:05 HOUR	49.6	46.4
14:05-14:10 HOUR	52.0	48.1
14:10-14:15 HOUR	50.6	48.9

For more information, call 800-451-3237 or visit [www.451.com](http://www.451.com)

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TIME*	RESULT (H/A)	
	time/minutes/seconds	TIME
14:35-14:40 HOUR	51.1	48.3
14:40-14:45 HOUR	48.1	47.8
14:45-14:50 HOUR	50.8	48.5
14:50-14:55 HOUR	50.4	46.8
14:55-15:00 HOUR	48.5	46.5
15:00-15:05 HOUR	48.7	46.7
15:05-15:10 HOUR	47.8	46.0
15:10-15:15 HOUR	49.5	47.0
15:15-15:20 HOUR	49.5	47.5
15:20-15:25 HOUR	51.4	47.2
15:25-15:30 HOUR	50.6	47.1
15:30-15:35 HOUR	50.8	47.0
15:35-15:40 HOUR	57.8	47.5
15:40-15:45 HOUR	64.7	47.5
15:45-15:50 HOUR	65.3	46.9
15:50-15:55 HOUR	62.4	52.0
15:55-16:00 HOUR	66.4	56.2
16:00-16:05 HOUR	60.1	48.1
16:05-16:10 HOUR	66.8	51.8
16:10-16:15 HOUR	64.7	45.7
16:15-16:20 HOUR	48.6	45.6
16:20-16:25 HOUR	48.3	46.8
16:25-16:30 HOUR	48.1	45.3
16:30-16:35 HOUR	50.7	46.0
16:35-16:40 HOUR	48.2	45.0
16:40-16:45 HOUR	48.8	37.3
16:45-16:50 HOUR	54.5	38.9
16:50-16:55 HOUR	52.5	41.1
16:55-17:00 HOUR	49.1	44.8
17:00-17:05 HOUR	51.7	45.3
17:05-17:10 HOUR	47.3	46.8
17:10-17:15 HOUR	50.3	45.4
17:15-17:20 HOUR	52.4	45.0
17:20-17:25 HOUR	48.8	44.3
17:25-17:30 HOUR	53.5	44.5
17:30-17:35 HOUR	48.1	47.8
17:35-17:40 HOUR	64.6	48.7
17:40-17:45 HOUR	52.3	45.9
17:45-17:50 HOUR	65.3	49.6
17:50-17:55 HOUR	51.3	46.8
17:55-18:00 HOUR	51.4	46.8
18:00-18:05 HOUR	48.8	46.9
18:05-18:10 HOUR	50.0	46.8
18:10-18:15 HOUR	49.8	44.8
18:15-18:20 HOUR	57.8	44.1
18:20-18:25 HOUR	63.8	42.2
18:25-18:30 HOUR	49.1	39.8
18:30-18:35 HOUR	47.2	38.8
18:35-18:40 HOUR	50.7	41.1
18:40-18:45 HOUR	49.6	39.5
18:45-18:50 HOUR	47.5	39.0

100 percent cotton  
100 percent wool  
100 percent polyester

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TIME*	RESULT dB(A)	
	Spurthana Road	Y34A-6415-0007
18:30-18:35 HOUR	46.5	40.0
18:35-18:40 HOUR	48.9	40.4
18:40-18:45 HOUR	53.9	39.0
18:45-18:50 HOUR	48.0	39.5
18:50-18:55 HOUR	46.0	37.0
18:55-19:00 HOUR	46.4	37.6
19:00-19:05 HOUR	45.4	37.2
19:05-19:10 HOUR	46.0	38.2
19:10-19:15 HOUR	44.1	39.7
19:15-19:20 HOUR	49.5	38.7
19:20-19:25 HOUR	42.2	37.1
19:25-19:30 HOUR	47.9	38.0
19:30-19:35 HOUR	45.3	37.3
19:35-19:40 HOUR	44.5	38.2
19:40-19:45 HOUR	45.3	38.4
19:45-19:50 HOUR	47.0	38.4
19:50-19:55 HOUR	42.8	38.0
19:55-20:00 HOUR	47.6	37.9
20:00-20:05 HOUR	45.6	37.4
20:05-20:10 HOUR	46.6	36.9
20:10-20:15 HOUR	42.9	37.0
20:15-20:20 HOUR	43.5	36.6
20:20-20:25 HOUR	42.4	37.8
20:25-20:30 HOUR	44.3	37.9
20:30-20:35 HOUR	47.0	39.4
20:35-20:40 HOUR	44.3	37.3
20:40-20:45 HOUR	44.3	36.9
20:45-20:50 HOUR	39.4	36.2
20:50-20:55 HOUR	48.1	36.7
20:55-21:00 HOUR	41.4	35.6
21:00-21:05 HOUR	42.4	36.2
21:05-21:10 HOUR	43.7	36.8
21:10-21:15 HOUR	40.3	36.4
21:15-21:20 HOUR	57.0	36.1
21:20-21:25 HOUR	42.1	36.8
21:25-21:30 HOUR	43.2	36.7
21:30-21:35 HOUR	40.6	37.0
21:35-21:40 HOUR	42.4	31.2
21:40-21:45 HOUR	46.1	37.5
21:45-21:50 HOUR	40.3	37.0
21:50-21:55 HOUR	41.8	37.5
21:55-22:00 HOUR	42.4	36.9
22:00-22:05 HOUR	40.6	37.0
22:05-22:10 HOUR	41.0	36.7
22:10-22:15 HOUR	43.8	36.7
22:15-22:20 HOUR	45.5	35.2
22:20-22:25 HOUR	45.7	35.2
22:25-22:30 HOUR	43.3	35.5
22:30-22:35 HOUR	40.9	35.5
22:35-22:40 HOUR	42.7	35.4
22:40-22:45 HOUR	38.0	35.1

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9/30

2024-U027045

DO NOT WRITE OVER  
OR REMOVE ANYTHING  
ON THIS ANALYSIS REPORT

TIME*	RESULT dB(A)	
	Spurthana Road	Y34A-6415-0007
22:46-22:50 HOUR	42.8	36.0
22:50-22:55 HOUR	42.7	36.6
22:55-23:00 HOUR	43.0	36.1
23:00-23:05 HOUR	45.1	35.9
23:05-23:10 HOUR	45.7	36.5
23:10-23:15 HOUR	41.4	35.3
23:15-23:20 HOUR	45.0	36.2
23:20-23:25 HOUR	42.0	35.7
23:25-23:30 HOUR	44.4	37.6
23:30-23:35 HOUR	39.9	35.3
23:35-23:40 HOUR	42.8	35.7
23:40-23:45 HOUR	45.0	35.0
23:45-23:50 HOUR	48.6	38.3
23:50-23:55 HOUR	43.4	36.7
23:55-00:00 HOUR	43.6	38.1
00:00-00:05 HOUR	44.4	36.7
00:05-00:10 HOUR	45.0	36.6
00:10-00:15 HOUR	41.4	39.3
00:15-00:20 HOUR	43.1	36.4
00:20-00:25 HOUR	44.8	36.7
00:25-00:30 HOUR	43.5	39.3
00:30-00:35 HOUR	43.9	38.6
00:35-00:40 HOUR	59.2	39.6
00:40-00:45 HOUR	44.4	39.1
00:45-00:50 HOUR	41.6	38.8
00:50-00:55 HOUR	43.2	38.9
00:55-01:00 HOUR	44.0	40.0
01:00-01:05 HOUR	48.3	39.4
01:05-01:10 HOUR	44.0	38.3
01:10-01:15 HOUR	44.0	39.4
01:15-01:20 HOUR	41.8	39.2
01:20-01:25 HOUR	56.8	36.1
01:25-01:30 HOUR	47.9	38.8
01:30-01:35 HOUR	40.8	35.3
01:35-01:40 HOUR	48.1	34.7
01:40-01:45 HOUR	41.4	39.1
01:45-01:50 HOUR	40.6	35.2
01:50-01:55 HOUR	52.3	34.8
01:55-02:00 HOUR	40.7	39.5
02:00-02:05 HOUR	41.2	39.3
02:05-02:10 HOUR	41.5	39.7
02:10-02:15 HOUR	40.7	38.6
02:15-02:20 HOUR	41.8	35.9
02:20-02:25 HOUR	40.6	38.5
02:25-02:30 HOUR	40.7	38.6
02:30-02:35 HOUR	41.0	34.0
02:35-02:40 HOUR	40.8	38.0
02:40-02:45 HOUR	43.1	39.6
02:45-02:50 HOUR	42.3	38.4
02:50-02:55 HOUR	41.1	38.5

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12/30

2024-U027045

DO NOT WRITE OVER  
OR REMOVE ANYTHING  
ON THIS ANALYSIS REPORT

TIME*	RESULT (BIA)	
	Long 3 sec	Long 5 sec
03:00-03:05 HOUR	36.8	39.2
03:05-03:10 HOUR	43.1	39.4
03:10-03:15 HOUR	41.3	39.9
03:15-03:20 HOUR	40.2	39.9
03:20-03:25 HOUR	41.7	39.6
03:25-03:30 HOUR	45.9	39.9
03:30-03:35 HOUR	43.5	39.9
03:35-03:40 HOUR	45.2	40.0
03:40-03:45 HOUR	41.4	40.0
03:45-03:50 HOUR	42.5	40.4
03:50-03:55 HOUR	45.4	40.3
03:55-04:00 HOUR	42.1	39.7
04:00-04:05 HOUR	42.0	39.6
04:05-04:10 HOUR	43.7	39.8
04:10-04:15 HOUR	40.7	39.5
04:15-04:20 HOUR	41.1	39.7
04:20-04:25 HOUR	47.1	40.1
04:25-04:30 HOUR	45.6	40.2
04:30-04:35 HOUR	41.4	39.6
04:35-04:40 HOUR	41.8	40.2
04:40-04:45 HOUR	50.8	41.0
04:45-04:50 HOUR	43.1	40.1
04:50-04:55 HOUR	42.2	40.1
04:55-05:00 HOUR	42.3	40.5
05:00-05:05 HOUR	48.4	40.3
05:05-05:10 HOUR	44.9	40.7
05:10-05:15 HOUR	44.1	40.8
05:15-05:20 HOUR	42.5	40.3
05:20-05:25 HOUR	49.4	40.4
05:25-05:30 HOUR	43.4	40.5
05:30-05:35 HOUR	41.3	39.8
05:35-05:40 HOUR	41.9	40.4
05:40-05:45 HOUR	44.7	40.1
05:45-05:50 HOUR	45.3	40.5
05:50-05:55 HOUR	55.9	41.8
05:55-06:00 HOUR	46.2	40.1
06:00-06:05 HOUR	47.0	42.3
06:05-06:10 HOUR	35.4	42.8
06:10-06:15 HOUR	47.8	42.1
06:15-06:20 HOUR	45.3	42.2
06:20-06:25 HOUR	47.6	42.2
06:25-06:30 HOUR	49.6	43.0
06:30-06:35 HOUR	46.2	40.2
06:35-06:40 HOUR	56.7	42.6
06:40-06:45 HOUR	47.5	40.8
06:45-06:50 HOUR	55.5	42.0
06:50-06:55 HOUR	48.9	41.7
06:55-07:00 HOUR	40.3	40.3
07:00-07:05 HOUR	49.6	40.4
07:05-07:10 HOUR	49.4	41.5
07:10-07:15 HOUR	56.5	41.4

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11/30

2024-U027045

TIME*	RESULT (BIA)	
	Long 3 sec	Long 5 sec
07:15-07:20 HOUR	48.0	35.6
07:20-07:25 HOUR	48.7	41.7
07:25-07:30 HOUR	53.2	41.0
07:30-07:35 HOUR	53.2	41.1
07:35-07:40 HOUR	48.3	38.7
07:40-07:45 HOUR	53.4	39.9
07:45-07:50 HOUR	48.5	38.6
07:50-07:55 HOUR	52.4	38.1
07:55-08:00 HOUR	47.4	41.7
08:00-08:05 HOUR	42.8	41.5
08:05-08:10 HOUR	40.2	41.2
08:10-08:15 HOUR	45.1	38.6
08:15-08:20 HOUR	48.9	38.9
08:20-08:25 HOUR	52.6	39.2
08:25-08:30 HOUR	53.3	37.9
08:30-08:35 HOUR	54.2	41.6
08:35-08:40 HOUR	47.3	41.2
08:40-08:45 HOUR	51.4	38.4
08:45-08:50 HOUR	48.5	36.5
08:50-08:55 HOUR	45.7	38.4
08:55-09:00 HOUR	46.7	39.5
09:00-09:05 HOUR	56.1	38.2
09:05-09:10 HOUR	44.8	36.2
09:10-09:15 HOUR	48.4	39.3
09:15-09:20 HOUR	51.3	41.7
09:20-09:25 HOUR	56.4	38.2
09:25-09:30 HOUR	57.9	41.1
09:30-09:35 HOUR	52.6	42.7
09:35-09:40 HOUR	57.6	42.7
09:40-09:45 HOUR	55.0	41.8
09:45-09:50 HOUR	49.2	42.4
09:50-09:55 HOUR	50.0	40.7
09:55-10:00 HOUR	47.9	39.3

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2024-U027045



TIME*	RESULT (dB(A))	
	10m	10m
10:00-10:05 HOUR	40.0	38.5
10:05-10:10 HOUR	39.0	39.2
10:10-10:15 HOUR	40.5	39.0
10:15-10:20 HOUR	41.2	41.2
10:20-10:25 HOUR	41.1	38.5
10:25-10:30 HOUR	41.1	38.8
10:30-10:35 HOUR	41.8	40.9
10:35-10:40 HOUR	41.9	38.8
10:40-10:45 HOUR	41.8	38.6
10:45-10:50 HOUR	41.8	44.2
10:50-10:55 HOUR	41.0	47.1
10:55-11:00 HOUR	42.9	38.7
11:00-11:05 HOUR	43.9	37.7
11:05-11:10 HOUR	43.9	34.2
11:10-11:15 HOUR	44.5	36.5
11:15-11:20 HOUR	44.6	36.6
11:20-11:25 HOUR	43.2	31.8
11:25-11:30 HOUR	44.7	30.4
11:30-11:35 HOUR	44.2	47.9
11:35-11:40 HOUR	47.1	41.3
11:40-11:45 HOUR	45.1	37.0
11:45-11:50 HOUR	43.6	38.1
11:50-11:55 HOUR	48.6	38.2
11:55-12:00 HOUR	36.5	36.4
12:00-12:05 HOUR	44.4	37.8
12:05-12:10 HOUR	46.5	39.6
12:10-12:15 HOUR	44.9	36.8
12:15-12:20 HOUR	48.3	36.5
12:20-12:25 HOUR	47.3	36.4
12:25-12:30 HOUR	45.2	36.1
12:30-12:35 HOUR	45.4	36.5
12:35-12:40 HOUR	42.2	36.2
12:40-12:45 HOUR	47.0	36.2
12:45-12:50 HOUR	47.6	36.0
12:50-12:55 HOUR	44.3	35.7
12:55-13:00 HOUR	47.2	36.9
13:00-13:05 HOUR	47.3	37.8
13:05-13:10 HOUR	44.5	36.2
13:10-13:15 HOUR	39.0	36.9
13:15-13:20 HOUR	60.8	30.4
13:20-13:25 HOUR	51.1	36.0
13:25-13:30 HOUR	50.5	45.7
13:30-13:35 HOUR	56.5	40.8
13:35-13:40 HOUR	50.8	47.6
13:40-13:45 HOUR	56.7	46.9
13:45-13:50 HOUR	62.3	42.5
13:50-13:55 HOUR	40.8	43.1
13:55-14:00 HOUR	50.3	45.8
14:00-14:05 HOUR	51.8	46.0
14:05-14:10 HOUR	51.9	45.1
14:10-14:15 HOUR	60.9	40.7

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13/30

2024-02-27/045

TIME*	RESULT (dB(A))	
	10m	10m
14:15-14:20 HOUR	67.4	55.4
14:20-14:25 HOUR	69.8	55.9
14:25-14:30 HOUR	61.5	48.0
14:30-14:35 HOUR	64.2	37.9
14:35-14:40 HOUR	43.8	38.0
14:40-14:45 HOUR	66.2	38.3
14:45-14:50 HOUR	45.2	36.3
14:50-14:55 HOUR	50.4	39.0
14:55-15:00 HOUR	42.1	35.9
15:00-15:05 HOUR	40.7	35.2
15:05-15:10 HOUR	47.3	37.3
15:10-15:15 HOUR	47.8	37.8
15:15-15:20 HOUR	53.5	34.9
15:20-15:25 HOUR	47.8	38.9
15:25-15:30 HOUR	46.4	37.0
15:30-15:35 HOUR	45.3	37.6
15:35-15:40 HOUR	52.8	29.7
15:40-15:45 HOUR	55.6	41.9
15:45-15:50 HOUR	51.8	46.6
15:50-15:55 HOUR	56.8	46.9
15:55-16:00 HOUR	50.8	41.7
16:00-16:05 HOUR	46.2	38.4
16:05-16:10 HOUR	48.8	38.0
16:10-16:15 HOUR	49.2	42.1
16:15-16:20 HOUR	50.2	39.2
16:20-16:25 HOUR	48.7	44.1
16:25-16:30 HOUR	55.4	45.8
16:30-16:35 HOUR	49.3	44.9
16:35-16:40 HOUR	49.8	44.5
16:40-16:45 HOUR	50.8	45.4
16:45-16:50 HOUR	48.3	44.7
16:50-16:55 HOUR	48.8	43.1
16:55-17:00 HOUR	47.7	42.1
17:00-17:05 HOUR	45.2	42.1
17:05-17:10 HOUR	48.2	41.1
17:10-17:15 HOUR	45.8	39.1
17:15-17:20 HOUR	54.3	42.4
17:20-17:25 HOUR	50.8	43.0
17:25-17:30 HOUR	47.8	38.1
17:30-17:35 HOUR	48.7	43.0
17:35-17:40 HOUR	49.5	41.8
17:40-17:45 HOUR	52.5	41.3
17:45-17:50 HOUR	52.0	42.6
17:50-17:55 HOUR	48.4	46.4
17:55-18:00 HOUR	33.1	41.8
18:00-18:05 HOUR	40.1	39.8
18:05-18:10 HOUR	48.7	46.8
18:10-18:15 HOUR	47.5	46.2
18:15-18:20 HOUR	47.6	46.7
18:20-18:25 HOUR	56.1	35.3
18:25-18:30 HOUR	52.4	35.7

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14/30

2024-02-27/045

TIME*	RESULT dB(A)	
	Long 3 min	Long 1 min
18:10-18:25 HOUR	48.1	38.9
18:15-18:30 HOUR	48.2	39.7
18:40-18:45 HOUR	49.0	38.6
18:45-18:50 HOUR	48.8	38.3
18:50-18:55 HOUR	48.4	37.2
18:55-19:00 HOUR	50.9	38.4
19:00-19:05 HOUR	51.3	39.0
19:05-19:10 HOUR	48.6	39.7
19:10-19:15 HOUR	46.0	38.7
19:15-19:20 HOUR	49.9	38.0
19:20-19:25 HOUR	48.9	38.7
19:25-19:30 HOUR	48.2	38.8
19:30-19:35 HOUR	50.1	40.1
19:35-19:40 HOUR	43.0	40.2
19:40-19:45 HOUR	44.6	40.0
19:45-19:50 HOUR	47.6	39.6
19:50-19:55 HOUR	42.6	38.4
19:55-20:00 HOUR	41.8	36.7
20:00-20:05 HOUR	29.5	37.2
20:05-20:10 HOUR	40.1	38.1
20:10-20:15 HOUR	44.9	38.6
20:15-20:20 HOUR	39.4	38.7
20:20-20:25 HOUR	41.2	38.7
20:25-20:30 HOUR	41.8	38.1
20:30-20:35 HOUR	43.8	34.7
20:35-20:40 HOUR	40.5	35.3
20:40-20:45 HOUR	42.1	38.7
20:45-20:50 HOUR	42.1	38.2
20:50-20:55 HOUR	43.0	38.0
20:55-21:00 HOUR	42.9	38.7
21:00-21:05 HOUR	41.7	38.5
21:05-21:10 HOUR	40.2	38.1
21:10-21:15 HOUR	48.5	38.7
21:15-21:20 HOUR	44.0	38.1
21:20-21:25 HOUR	45.2	38.5
21:25-21:30 HOUR	43.0	38.6
21:30-21:35 HOUR	42.4	38.9
21:35-21:40 HOUR	42.8	38.4
21:40-21:45 HOUR	41.7	38.0
21:45-21:50 HOUR	42.3	39.3
21:50-21:55 HOUR	43.8	38.1
21:55-22:00 HOUR	44.6	38.7
22:00-22:05 HOUR	41.6	38.2
22:05-22:10 HOUR	42.6	39.4
22:10-22:15 HOUR	41.6	38.5
22:15-22:20 HOUR	42.0	38.5
22:20-22:25 HOUR	42.5	39.0
22:25-22:30 HOUR	41.4	38.5
22:30-22:35 HOUR	42.6	38.5
22:35-22:40 HOUR	41.4	38.2
22:40-22:45 HOUR	48.3	38.2

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11/32

2024-0827045

TIME*	RESULT dB(A)	
	Long 3 min	Long 1 min
22:45-22:50 HOUR	40.2	37.9
22:50-22:55 HOUR	41.2	37.6
22:55-23:00 HOUR	44.3	38.2
23:00-23:05 HOUR	40.2	37.7
23:05-23:10 HOUR	41.5	38.1
23:10-23:15 HOUR	41.4	37.8
23:15-23:20 HOUR	41.8	38.8
23:20-23:25 HOUR	42.4	38.1
23:25-23:30 HOUR	40.4	38.3
23:30-23:35 HOUR	40.1	37.8
23:35-23:40 HOUR	44.1	38.2
23:40-23:45 HOUR	40.4	38.1
23:45-23:50 HOUR	42.2	38.2
23:50-23:55 HOUR	40.3	38.3
23:55-00:00 HOUR	40.9	38.0
00:00-00:05 HOUR	40.4	37.4
00:05-00:10 HOUR	40.7	36.9
00:10-00:15 HOUR	39.4	37.0
00:15-00:20 HOUR	40.4	38.3
00:20-00:25 HOUR	38.4	37.7
00:25-00:30 HOUR	40.4	37.7
00:30-00:35 HOUR	41.2	37.2
00:35-00:40 HOUR	40.6	37.6
00:40-00:45 HOUR	38.5	37.3
00:45-00:50 HOUR	38.5	37.3
00:50-00:55 HOUR	40.0	37.8
00:55-01:00 HOUR	40.1	37.5
01:00-01:05 HOUR	38.8	37.3
01:05-01:10 HOUR	39.0	37.2
01:10-01:15 HOUR	38.9	37.3
01:15-01:20 HOUR	38.5	38.1
01:20-01:25 HOUR	40.9	37.7
01:25-01:30 HOUR	41.2	37.6
01:30-01:35 HOUR	41.1	37.3
01:35-01:40 HOUR	39.8	37.3
01:40-01:45 HOUR	42.1	38.3
01:45-01:50 HOUR	38.4	37.2
01:50-01:55 HOUR	43.7	37.8
01:55-02:00 HOUR	40.3	37.8
02:00-02:05 HOUR	42.6	38.0
02:05-02:10 HOUR	40.1	37.7
02:10-02:15 HOUR	40.8	38.0
02:15-02:20 HOUR	41.4	38.6
02:20-02:25 HOUR	39.7	38.0
02:25-02:30 HOUR	42.1	38.4
02:30-02:35 HOUR	42.0	38.2
02:35-02:40 HOUR	39.5	37.3
02:40-02:45 HOUR	39.8	37.4
02:45-02:50 HOUR	41.3	37.2
02:50-02:55 HOUR	43.9	37.8
02:55-03:00 HOUR	42.1	37.8

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11/32

2024-0827045

TIME*	RESULT (dB(A))	
	Superintendent	Inspector
	MARCH 23 - 24, 2024	T24A0145-0026
03:00-03:15 HOUR	39.0	39.3
03:15-03:30 HOUR	38.7	39.5
03:30-03:45 HOUR	38.6	39.0
03:45-04:00 HOUR	38.2	37.8
03:00-03:15 HOUR	40.5	37.7
03:15-03:30 HOUR	38.5	37.0
03:30-03:45 HOUR	38.1	37.7
03:45-04:00 HOUR	42.6	37.8
04:00-04:15 HOUR	45.9	37.6
04:15-04:30 HOUR	43.9	37.7
04:30-04:45 HOUR	39.3	37.5
04:45-05:00 HOUR	39.0	37.1
05:00-05:15 HOUR	43.0	37.4
05:15-05:30 HOUR	39.2	37.4
05:30-05:45 HOUR	40.6	37.3
05:45-06:00 HOUR	38.4	37.4
06:00-06:15 HOUR	39.0	37.7
06:15-06:30 HOUR	39.6	37.8
06:30-06:45 HOUR	40.2	38.0
06:45-07:00 HOUR	39.5	37.9
07:00-07:15 HOUR	38.3	37.5
07:15-07:30 HOUR	38.7	37.4
07:30-07:45 HOUR	42.7	37.8
07:45-08:00 HOUR	40.6	37.9
08:00-08:15 HOUR	42.2	38.5
08:15-08:30 HOUR	41.3	38.6
08:30-08:45 HOUR	42.9	38.5
08:45-09:00 HOUR	41.9	38.3
09:00-09:15 HOUR	42.0	38.5
09:15-09:30 HOUR	44.1	38.4
09:30-09:45 HOUR	42.3	38.5
09:45-10:00 HOUR	44.2	38.1
10:00-10:15 HOUR	44.3	38.4
10:15-10:30 HOUR	42.7	38.6
10:30-10:45 HOUR	48.6	38.9
10:45-11:00 HOUR	48.2	41.2
11:00-11:15 HOUR	45.0	41.3
11:15-11:30 HOUR	52.0	41.7
11:30-11:45 HOUR	54.7	42.9
11:45-12:00 HOUR	53.3	42.7
12:00-12:15 HOUR	48.0	42.6
12:15-12:30 HOUR	46.5	42.1
12:30-12:45 HOUR	47.7	42.9
12:45-01:00 HOUR	51.6	43.4
01:00-01:15 HOUR	52.3	44.1
01:15-01:30 HOUR	52.7	42.0
01:30-01:45 HOUR	48.9	42.9
01:45-02:00 HOUR	48.8	42.1
02:00-02:15 HOUR	48.1	41.9
02:15-02:30 HOUR	47.2	40.0
02:30-02:45 HOUR	46.5	42.9

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2024-03-27/045

NO NOISE DETECTED  
 NO NOISE DETECTED  
 NO NOISE DETECTED

17/30

TIME*	RESULT (dB(A))	
	Superintendent	Inspector
	MARCH 23 - 24, 2024	T24A0145-0026
07:15-07:30 HOUR	34.0	42.9
07:30-07:45 HOUR	53.8	42.0
07:45-08:00 HOUR	50.5	42.1
07:00-07:15 HOUR	51.6	42.0
07:15-07:30 HOUR	56.1	42.8
07:30-07:45 HOUR	53.7	43.2
07:45-08:00 HOUR	53.6	42.1
07:00-07:15 HOUR	47.1	40.3
07:15-07:30 HOUR	49.3	38.8
07:30-07:45 HOUR	52.3	39.8
07:45-08:00 HOUR	50.1	42.6
08:00-08:15 HOUR	57.0	47.4
08:15-08:30 HOUR	53.3	46.3
08:30-08:45 HOUR	52.3	40.1
08:45-09:00 HOUR	54.0	48.3
09:00-09:15 HOUR	52.1	46.3
09:15-09:30 HOUR	48.2	44.7
09:30-09:45 HOUR	50.2	45.7
09:45-10:00 HOUR	50.5	46.5
10:00-10:15 HOUR	50.3	46.6
10:15-10:30 HOUR	53.8	47.1
10:30-10:45 HOUR	49.8	45.3
10:45-11:00 HOUR	48.1	42.2
11:00-11:15 HOUR	53.4	42.5
11:15-11:30 HOUR	47.3	38.6
11:30-11:45 HOUR	58.1	39.7
11:45-12:00 HOUR	50.8	46.4
12:00-12:15 HOUR	50.0	46.7
12:15-12:30 HOUR	52.1	48.1
12:30-12:45 HOUR	51.8	43.6
12:45-01:00 HOUR	52.1	48.7
01:00-01:15 HOUR	50.7	48.3
01:15-01:30 HOUR	50.1	48.1

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2024-03-27/045

NO NOISE DETECTED  
 NO NOISE DETECTED  
 NO NOISE DETECTED

17/30



TIME*	RESULT (dB(A))	
	Long 1 m	Long 3 m
10:00-10:05 HOUR	53.6	47.1
10:05-10:10 HOUR	50.3	40.5
10:10-10:15 HOUR	52.7	48.3
10:15-10:20 HOUR	50.4	46.8
10:20-10:25 HOUR	46.7	46.1
10:25-10:30 HOUR	48.5	46.0
10:30-10:35 HOUR	50.5	48.0
10:35-10:40 HOUR	49.5	47.4
10:40-10:45 HOUR	49.7	47.8
10:45-10:50 HOUR	50.0	47.3
10:50-10:55 HOUR	49.2	47.3
10:55-11:00 HOUR	49.8	47.4
11:00-11:05 HOUR	66.4	47.2
11:05-11:10 HOUR	70.1	56.4
11:10-11:15 HOUR	70.6	58.1
11:15-11:20 HOUR	62.1	53.6
11:20-11:25 HOUR	65.1	54.6
11:25-11:30 HOUR	53.3	44.1
11:30-11:35 HOUR	52.7	44.4
11:35-11:40 HOUR	53.2	47.4
11:40-11:45 HOUR	69.2	63.2
11:45-11:50 HOUR	57.4	47.7
11:50-11:55 HOUR	47.4	42.1
11:55-12:00 HOUR	47.6	47.9
12:00-12:05 HOUR	50.3	46.4
12:05-12:10 HOUR	50.0	48.5
12:10-12:15 HOUR	48.9	45.6
12:15-12:20 HOUR	50.6	44.2
12:20-12:25 HOUR	47.5	41.7
12:25-12:30 HOUR	46.6	44.6
12:30-12:35 HOUR	51.8	38.4
12:35-12:40 HOUR	44.2	36.0
12:40-12:45 HOUR	41.2	35.5
12:45-12:50 HOUR	42.0	34.4
12:50-12:55 HOUR	44.4	35.3
12:55-13:00 HOUR	40.5	35.7
13:00-13:05 HOUR	51.4	37.8
13:05-13:10 HOUR	48.1	35.9
13:10-13:15 HOUR	46.7	41.2
13:15-13:20 HOUR	48.5	41.3
13:20-13:25 HOUR	50.8	41.3
13:25-13:30 HOUR	44.0	40.6
13:30-13:35 HOUR	44.8	40.0
13:35-13:40 HOUR	48.1	41.1
13:40-13:45 HOUR	47.4	38.1
13:45-13:50 HOUR	45.7	36.7
13:50-13:55 HOUR	44.6	35.0
13:55-14:00 HOUR	46.6	38.0
14:00-14:05 HOUR	49.5	41.0
14:05-14:10 HOUR	48.8	41.7
14:10-14:15 HOUR	46.0	41.3

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2024-U227045

10/10

TIME*	RESULT (dB(A))	
	Long 1 m	Long 3 m
14:15-14:20 HOUR	46.8	41.9
14:20-14:25 HOUR	45.1	38.1
14:25-14:30 HOUR	42.2	37.2
14:30-14:35 HOUR	46.1	38.1
14:35-14:40 HOUR	46.7	39.4
14:40-14:45 HOUR	59.3	44.0
14:45-14:50 HOUR	47.3	43.2
14:50-14:55 HOUR	48.8	46.4
14:55-15:00 HOUR	49.4	42.9
15:00-15:05 HOUR	47.0	43.7
15:05-15:10 HOUR	46.7	43.6
15:10-15:15 HOUR	46.7	43.0
15:15-15:20 HOUR	48.5	42.1
15:20-15:25 HOUR	47.9	43.3
15:25-15:30 HOUR	47.2	42.5
15:30-15:35 HOUR	46.3	39.2
15:35-15:40 HOUR	41.5	38.1
15:40-15:45 HOUR	40.4	37.9
15:45-15:50 HOUR	46.6	36.9
15:50-15:55 HOUR	46.4	36.8
15:55-16:00 HOUR	45.4	36.1
16:00-16:05 HOUR	47.8	39.0
16:05-16:10 HOUR	49.5	44.5
16:10-16:15 HOUR	50.1	45.4
16:15-16:20 HOUR	48.9	44.4
16:20-16:25 HOUR	50.4	45.4
16:25-16:30 HOUR	49.8	46.1
16:30-16:35 HOUR	48.5	45.6
16:35-16:40 HOUR	48.0	44.3
16:40-16:45 HOUR	51.4	45.9
16:45-16:50 HOUR	52.4	46.1
16:50-16:55 HOUR	53.5	45.5
16:55-17:00 HOUR	49.5	42.0
17:00-17:05 HOUR	50.9	38.4
17:05-17:10 HOUR	47.8	40.2
17:10-17:15 HOUR	51.5	40.9
17:15-17:20 HOUR	52.6	38.7
17:20-17:25 HOUR	49.9	41.8
17:25-17:30 HOUR	45.7	39.5
17:30-17:35 HOUR	50.8	41.8
17:35-17:40 HOUR	47.9	40.7
17:40-17:45 HOUR	47.3	38.7
17:45-17:50 HOUR	46.3	38.7
17:50-17:55 HOUR	46.5	40.0
17:55-18:00 HOUR	49.1	40.3
18:00-18:05 HOUR	48.7	40.8
18:05-18:10 HOUR	47.5	40.3
18:10-18:15 HOUR	51.9	41.8
18:15-18:20 HOUR	49.2	39.9
18:20-18:25 HOUR	45.3	37.4

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2024-U227045

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TIME*	RESULT (B/A)		
	Samsamsook Rd		
	MARCH 24 - 25, 2024		
	T3A0445-5009		Lamp 1 min
	Lamp 1 min	Lamp 2 min	
18:35-18:45 HOUR	48.7	36.6	36.6
18:45-18:55 HOUR	50.5	37.6	37.6
18:55-19:05 HOUR	48.0	38.4	38.4
19:05-19:15 HOUR	46.5	37.5	37.5
19:15-19:25 HOUR	50.0	37.4	37.4
19:25-19:35 HOUR	46.7	37.3	37.3
19:35-19:45 HOUR	47.2	38.1	38.1
19:45-19:55 HOUR	46.3	38.6	38.6
19:55-20:05 HOUR	46.0	39.7	39.7
20:05-20:15 HOUR	47.8	38.3	38.3
20:15-20:25 HOUR	46.2	39.1	39.1
20:25-20:35 HOUR	52.8	39.0	39.0
20:35-20:45 HOUR	48.4	38.8	38.8
20:45-20:55 HOUR	46.6	38.6	38.6
20:55-21:05 HOUR	46.8	39.2	39.2
21:05-21:15 HOUR	50.8	39.1	39.1
21:15-21:25 HOUR	42.0	35.9	35.9
21:25-21:35 HOUR	45.3	35.4	35.4
21:35-21:45 HOUR	41.3	35.2	35.2
21:45-21:55 HOUR	42.1	36.7	36.7
21:55-22:05 HOUR	30.4	36.2	36.2
22:05-22:15 HOUR	40.3	34.7	34.7
22:15-22:25 HOUR	42.8	35.8	35.8
22:25-22:35 HOUR	41.4	35.3	35.3
22:35-22:45 HOUR	43.1	35.0	35.0
22:45-22:55 HOUR	46.7	37.8	37.8
22:55-23:05 HOUR	36.2	35.3	35.3
23:05-23:15 HOUR	35.5	38.0	38.0
23:15-23:25 HOUR	40.7	35.5	35.5
23:25-23:35 HOUR	41.3	35.5	35.5
23:35-23:45 HOUR	41.7	35.4	35.4
23:45-23:55 HOUR	44.8	37.4	37.4
23:55-24:05 HOUR	41.3	34.6	34.6
24:05-24:15 HOUR	38.9	35.0	35.0
24:15-24:25 HOUR	40.0	35.1	35.1
24:25-24:35 HOUR	38.1	34.5	34.5
24:35-24:45 HOUR	38.9	34.9	34.9
24:45-24:55 HOUR	42.0	37.5	37.5
24:55-25:05 HOUR	50.6	37.5	37.5
25:05-25:15 HOUR	40.7	37.5	37.5
25:15-25:25 HOUR	45.7	37.6	37.6
25:25-25:35 HOUR	41.1	37.1	37.1
25:35-25:45 HOUR	43.5	35.0	35.0
25:45-25:55 HOUR	35.3	33.5	33.5
25:55-26:05 HOUR	43.3	34.4	34.4
26:05-26:15 HOUR	39.0	34.4	34.4
26:15-26:25 HOUR	37.6	33.7	33.7
26:25-26:35 HOUR	37.7	33.3	33.3
26:35-26:45 HOUR	40.0	34.2	34.2
26:45-26:55 HOUR	41.5	34.4	34.4
26:55-27:05 HOUR	46.7	33.8	33.8

WE GUARANTEE  
NO ERRORS  
IF NO GROUP CHANGES

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TIME*	RESULT (B/A)		
	Samsamsook Rd		
	MARCH 24 - 25, 2024		
	T3A0445-5009		Lamp 1 min
	Lamp 1 min	Lamp 2 min	
22:45-22:55 HOUR	41.1	35.7	35.7
22:55-23:05 HOUR	45.5	35.5	35.5
23:05-23:15 HOUR	55.6	34.0	34.0
23:15-23:25 HOUR	41.1	34.3	34.3
23:25-23:35 HOUR	38.4	31.8	31.8
23:35-23:45 HOUR	43.4	34.3	34.3
23:45-23:55 HOUR	39.0	34.6	34.6
23:55-24:05 HOUR	54.1	34.4	34.4
24:05-24:15 HOUR	40.5	34.5	34.5
24:15-24:25 HOUR	47.0	34.3	34.3
24:25-24:35 HOUR	41.9	31.8	31.8
24:35-24:45 HOUR	39.1	34.3	34.3
24:45-24:55 HOUR	35.4	33.5	33.5
24:55-25:05 HOUR	37.0	33.4	33.4
25:05-25:15 HOUR	36.8	33.3	33.3
25:15-25:25 HOUR	30.7	34.8	34.8
25:25-25:35 HOUR	41.4	36.8	36.8
25:35-25:45 HOUR	40.8	38.3	38.3
25:45-25:55 HOUR	40.2	37.8	37.8
25:55-26:05 HOUR	40.2	38.3	38.3
26:05-26:15 HOUR	40.7	38.3	38.3
26:15-26:25 HOUR	40.3	38.0	38.0
26:25-26:35 HOUR	40.3	38.2	38.2
26:35-26:45 HOUR	30.2	37.3	37.3
26:45-26:55 HOUR	42.4	37.9	37.9
26:55-27:05 HOUR	41.1	36.7	36.7
27:05-27:15 HOUR	48.9	37.7	37.7
27:15-27:25 HOUR	39.1	37.5	37.5
27:25-27:35 HOUR	39.6	37.6	37.6
27:35-27:45 HOUR	43.2	37.2	37.2
27:45-27:55 HOUR	39.1	37.1	37.1
27:55-28:05 HOUR	39.1	37.4	37.4
28:05-28:15 HOUR	29.1	37.5	37.5
28:15-28:25 HOUR	41.1	37.3	37.3
28:25-28:35 HOUR	40.1	38.0	38.0
28:35-28:45 HOUR	45.6	37.9	37.9
28:45-28:55 HOUR	42.0	38.1	38.1
28:55-29:05 HOUR	40.7	37.7	37.7
29:05-29:15 HOUR	40.1	37.8	37.8
29:15-29:25 HOUR	40.7	37.7	37.7
29:25-29:35 HOUR	42.5	37.5	37.5
29:35-29:45 HOUR	38.8	37.5	37.5
29:45-29:55 HOUR	39.3	37.8	37.8
29:55-30:05 HOUR	41.9	37.6	37.6
30:05-30:15 HOUR	39.4	37.9	37.9
30:15-30:25 HOUR	41.0	37.9	37.9
30:25-30:35 HOUR	43.8	37.7	37.7
30:35-30:45 HOUR	44.9	38.4	38.4
30:45-30:55 HOUR	40.2	38.1	38.1
30:55-31:05 HOUR	39.0	37.4	37.4

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IF NO GROUP CHANGES

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20/30 2024-U027045

TIME*	RESULT dB(A)	
	Location	Time
	Leg 5 min	Leg 5 min
00:30-01:25 HOUR	41.3	37.8
01:30-02:10 HOUR	48.7	37.8
02:10-03:15 HOUR	41.8	38.2
03:15-04:20 HOUR	42.8	37.6
04:20-05:25 HOUR	39.3	38.0
05:25-06:30 HOUR	39.9	38.5
06:30-07:35 HOUR	40.0	38.8
07:35-08:40 HOUR	38.6	38.8
08:40-09:45 HOUR	39.7	38.6
09:45-10:50 HOUR	39.9	38.9
10:50-11:55 HOUR	40.5	37.8
11:55-12:50 HOUR	42.1	39.0
12:50-01:25 HOUR	40.3	38.6
01:30-02:25 HOUR	39.5	38.9
02:25-03:20 HOUR	39.5	38.2
03:20-04:25 HOUR	40.0	38.5
04:25-05:30 HOUR	40.5	37.8
05:30-06:35 HOUR	43.9	38.1
06:35-07:40 HOUR	41.3	38.7
07:40-08:45 HOUR	43.7	38.5
08:45-09:50 HOUR	40.0	38.0
09:50-10:55 HOUR	41.2	38.4
10:55-11:50 HOUR	41.8	38.5
11:50-12:55 HOUR	43.0	38.8
12:55-01:30 HOUR	40.4	38.5
01:30-02:25 HOUR	42.0	38.5
02:25-03:20 HOUR	41.8	38.6
03:20-04:25 HOUR	44.1	38.5
04:25-05:30 HOUR	42.8	38.8
05:30-06:35 HOUR	41.7	38.4
06:35-07:40 HOUR	42.8	38.5
07:40-08:45 HOUR	45.7	38.8
08:45-09:50 HOUR	50.4	39.9
09:50-10:55 HOUR	45.7	40.2
10:55-11:50 HOUR	46.0	41.1
11:50-12:55 HOUR	46.8	41.2
12:55-01:30 HOUR	51.2	41.7
01:30-02:25 HOUR	49.0	41.4
02:25-03:20 HOUR	47.0	41.9
03:20-04:25 HOUR	47.7	42.0
04:25-05:30 HOUR	48.7	42.0
05:30-06:35 HOUR	47.9	42.9
06:35-07:40 HOUR	47.3	41.8
07:40-08:45 HOUR	51.5	41.7
08:45-09:50 HOUR	48.8	41.9
09:50-10:55 HOUR	49.8	41.6
10:55-11:50 HOUR	51.6	41.5
11:50-12:55 HOUR	51.7	41.1
12:55-01:30 HOUR	49.8	42.1
01:30-02:25 HOUR	49.8	42.0

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23/30

2024-UG27045

TIME*	RESULT dB(A)	
	Location	Time
	Leg 5 min	Leg 5 min
07:15-07:20 HOUR	53.4	42.9
07:20-07:25 HOUR	55.1	44.0
07:25-07:30 HOUR	49.1	42.7
07:30-07:35 HOUR	46.5	42.8
07:35-07:40 HOUR	56.0	43.6
07:40-07:45 HOUR	52.7	42.5
07:45-07:50 HOUR	48.9	42.4
07:50-07:55 HOUR	52.4	42.0
07:55-08:00 HOUR	50.7	42.5
08:00-08:05 HOUR	48.4	43.4
08:05-08:10 HOUR	51.0	42.9
08:10-08:15 HOUR	48.0	42.0
08:15-08:20 HOUR	48.8	43.4
08:20-08:25 HOUR	57.7	43.3
08:25-08:30 HOUR	46.2	42.4
08:30-08:35 HOUR	58.7	41.9
08:35-08:40 HOUR	52.2	42.4
08:40-08:45 HOUR	48.0	42.1
08:45-08:50 HOUR	47.1	42.9
08:50-08:55 HOUR	47.8	43.9
08:55-09:00 HOUR	46.5	43.5
09:00-09:05 HOUR	46.4	44.0
09:05-09:10 HOUR	47.8	43.9
09:10-09:15 HOUR	48.8	42.9
09:15-09:20 HOUR	50.4	42.4
09:20-09:25 HOUR	47.1	43.9
09:25-09:30 HOUR	51.3	42.7
09:30-09:35 HOUR	46.1	42.0
09:35-09:40 HOUR	49.1	41.8
09:40-09:45 HOUR	46.8	42.6
09:45-09:50 HOUR	46.2	41.6
09:50-09:55 HOUR	60.8	43.8
09:55-10:00 HOUR	46.8	42.0

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2024-UG27045





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TIME*	RESULT (dB(A))	
	Long 9 min	Long 3 min
10:00-10:05 HOUR	55.6	50.5
10:05-10:10 HOUR	51.2	49.8
10:10-10:15 HOUR	50.8	48.5
10:15-10:20 HOUR	49.8	48.4
10:20-10:25 HOUR	49.8	47.6
10:25-10:30 HOUR	49.7	47.9
10:30-10:35 HOUR	51.4	48.3
10:35-10:40 HOUR	51.3	48.4
10:40-10:45 HOUR	50.2	47.7
10:45-10:50 HOUR	50.8	47.9
10:50-10:55 HOUR	50.6	48.1
10:55-11:00 HOUR	50.9	48.5
11:00-11:05 HOUR	50.4	48.5
11:05-11:10 HOUR	50.6	48.8
11:10-11:15 HOUR	49.6	47.7
11:15-11:20 HOUR	50.0	47.4
11:20-11:25 HOUR	49.2	47.7
11:25-11:30 HOUR	49.5	47.8
11:30-11:35 HOUR	49.9	47.3
11:35-11:40 HOUR	55.2	47.6
11:40-11:45 HOUR	53.5	48.5
11:45-11:50 HOUR	50.5	48.8
11:50-11:55 HOUR	50.9	48.9
11:55-12:00 HOUR	55.6	48.9
12:00-12:05 HOUR	53.0	48.2
12:05-12:10 HOUR	49.5	48.1
12:10-12:15 HOUR	55.2	48.5
12:15-12:20 HOUR	50.0	48.8
12:20-12:25 HOUR	51.0	48.6
12:25-12:30 HOUR	50.8	48.8
12:30-12:35 HOUR	50.1	48.2
12:35-12:40 HOUR	49.3	47.3
12:40-12:45 HOUR	50.0	48.4
12:45-12:50 HOUR	51.0	48.8
12:50-12:55 HOUR	51.2	48.2
12:55-13:00 HOUR	50.1	47.9
13:00-13:05 HOUR	50.4	47.7
13:05-13:10 HOUR	51.9	48.0
13:10-13:15 HOUR	50.9	47.9
13:15-13:20 HOUR	49.9	47.7
13:20-13:25 HOUR	49.9	47.6
13:25-13:30 HOUR	49.3	47.2
13:30-13:35 HOUR	48.5	47.2
13:35-13:40 HOUR	48.3	47.1
13:40-13:45 HOUR	48.0	47.0
13:45-13:50 HOUR	48.4	46.5
13:50-13:55 HOUR	48.0	46.6
13:55-14:00 HOUR	46.3	46.6
14:00-14:05 HOUR	46.6	46.8
14:05-14:10 HOUR	46.5	46.8
14:10-14:15 HOUR	48.5	46.2



United Analyst and Engineering Consultant Co., Ltd.  
85 Sukhumburi 41, Sukhumvit Road, Bangkok, Thailand 10110  
Tel: 02-262 2838 Fax: 02-262 2839 Email: info@uaeconsultant.com

TIME*	RESULT (dB(A))	
	Long 9 min	Long 3 min
18:15-18:20 HOUR	47.9	45.6
18:20-18:25 HOUR	47.7	44.3
18:25-18:30 HOUR	49.7	45.6
18:30-18:35 HOUR	48.7	46.3
18:35-18:40 HOUR	48.9	45.8
18:40-18:45 HOUR	47.6	45.1
18:45-18:50 HOUR	48.0	45.8
18:50-18:55 HOUR	47.1	45.4
18:55-19:00 HOUR	50.5	45.5
19:00-19:05 HOUR	51.7	45.5
19:05-19:10 HOUR	47.9	45.6
19:10-19:15 HOUR	46.3	45.0
19:15-19:20 HOUR	45.9	44.7
19:20-19:25 HOUR	48.4	44.9
19:25-19:30 HOUR	48.6	45.3
19:30-19:35 HOUR	48.6	45.1
19:35-19:40 HOUR	48.4	44.4
19:40-19:45 HOUR	45.7	44.1
19:45-19:50 HOUR	46.7	43.7
19:50-19:55 HOUR	46.2	43.5
19:55-20:00 HOUR	47.7	44.0
20:00-20:05 HOUR	48.0	43.4
20:05-20:10 HOUR	46.2	44.1
20:10-20:15 HOUR	47.1	43.9
20:15-20:20 HOUR	46.5	44.0
20:20-20:25 HOUR	48.2	43.9
20:25-20:30 HOUR	46.4	44.5
20:30-20:35 HOUR	47.7	44.4
20:35-20:40 HOUR	46.4	43.7
20:40-20:45 HOUR	45.5	43.4
20:45-20:50 HOUR	44.9	43.1
20:50-20:55 HOUR	45.7	43.7
20:55-21:00 HOUR	45.3	43.9
21:00-21:05 HOUR	49.9	44.1
21:05-21:10 HOUR	50.0	45.6
21:10-21:15 HOUR	54.7	43.9
21:15-21:20 HOUR	48.8	44.4
21:20-21:25 HOUR	45.1	44.0
21:25-21:30 HOUR	45.8	43.7
21:30-21:35 HOUR	44.7	43.4
21:35-21:40 HOUR	46.3	44.4
21:40-21:45 HOUR	46.0	44.0
21:45-21:50 HOUR	48.8	42.9
21:50-21:55 HOUR	46.1	44.0
21:55-22:00 HOUR	46.3	44.4
22:00-22:05 HOUR	47.1	44.6
22:05-22:10 HOUR	46.8	44.8
22:10-22:15 HOUR	48.2	44.3
22:15-22:20 HOUR	47.4	44.8
22:20-22:25 HOUR	45.7	44.7
22:25-22:30 HOUR	46.1	45.2

TIME*	RESULT (dB(A))	
	Standard Noise	Time
	MARCH 25 - 26, 2024	T34AGHS-0910
18:30-18:35 HOUR	49.6	45.9
18:35-18:40 HOUR	47.2	45.6
18:40-18:45 HOUR	46.0	45.1
18:45-18:50 HOUR	47.8	44.7
18:50-18:55 HOUR	46.3	45.0
18:55-19:00 HOUR	45.7	44.8
19:00-19:05 HOUR	46.0	44.6
19:05-19:10 HOUR	47.3	44.9
19:10-19:15 HOUR	46.3	45.0
19:15-19:20 HOUR	46.5	45.1
19:20-19:25 HOUR	46.7	44.9
19:25-19:30 HOUR	46.1	44.8
19:30-19:35 HOUR	45.7	44.8
19:35-19:40 HOUR	47.4	45.0
19:40-19:45 HOUR	48.2	44.0
19:45-19:50 HOUR	46.8	43.5
19:50-19:55 HOUR	47.1	43.7
19:55-20:00 HOUR	48.3	43.1
20:00-20:05 HOUR	46.3	42.7
20:05-20:10 HOUR	46.2	42.9
20:10-20:15 HOUR	47.1	44.5
20:15-20:20 HOUR	47.2	44.0
20:20-20:25 HOUR	48.1	45.1
20:25-20:30 HOUR	48.3	45.2
20:30-20:35 HOUR	46.8	44.8
20:35-20:40 HOUR	46.4	43.5
20:40-20:45 HOUR	46.9	43.5
20:45-20:50 HOUR	46.5	43.7
20:50-20:55 HOUR	46.1	44.6
20:55-21:00 HOUR	47.1	45.1
21:00-21:05 HOUR	48.2	44.3
21:05-21:10 HOUR	45.9	44.8
21:10-21:15 HOUR	48.2	44.6
21:15-21:20 HOUR	46.9	45.6
21:20-21:25 HOUR	47.5	45.5
21:25-21:30 HOUR	49.7	46.5
21:30-21:35 HOUR	48.8	46.2
21:35-21:40 HOUR	48.1	45.7
21:40-21:45 HOUR	47.5	46.2
21:45-21:50 HOUR	47.5	47.2
21:50-21:55 HOUR	47.5	46.7
21:55-22:00 HOUR	50.5	48.0
22:00-22:05 HOUR	49.0	46.8
22:05-22:10 HOUR	49.4	47.4
22:10-22:15 HOUR	49.2	46.2
22:15-22:20 HOUR	49.8	47.7
22:20-22:25 HOUR	49.3	46.1
22:25-22:30 HOUR	49.9	46.0
22:30-22:35 HOUR	51.8	48.0
22:35-22:40 HOUR	51.1	48.8
22:40-22:45 HOUR	51.2	48.8

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27/30

2024-05-27/045

TIME*	RESULT (dB(A))	
	Standard Noise	Time
	MARCH 25 - 26, 2024	T34AGHS-0910
22:45-22:50 HOUR	51.0	49.0
22:50-22:55 HOUR	50.3	48.8
22:55-23:00 HOUR	50.3	48.8
23:00-23:05 HOUR	50.2	48.6
23:05-23:10 HOUR	50.2	48.7
23:10-23:15 HOUR	50.7	49.1
23:15-23:20 HOUR	52.8	50.1
23:20-23:25 HOUR	52.5	50.1
23:25-23:30 HOUR	52.4	50.8
23:30-23:35 HOUR	52.7	51.2
23:35-23:40 HOUR	50.6	49.6
23:40-23:45 HOUR	51.9	49.8
23:45-23:50 HOUR	50.8	49.3
23:50-23:55 HOUR	50.8	49.2
23:55-00:00 HOUR	50.8	49.2
00:00-00:05 HOUR	51.1	49.5
00:05-00:10 HOUR	50.4	48.9
00:10-00:15 HOUR	51.1	49.1
00:15-00:20 HOUR	51.2	49.5
00:20-00:25 HOUR	51.8	49.6
00:25-00:30 HOUR	51.7	49.4
00:30-00:35 HOUR	52.2	49.1
00:35-00:40 HOUR	50.2	48.6
00:40-00:45 HOUR	52.5	49.3
00:45-00:50 HOUR	53.0	49.2
00:50-00:55 HOUR	54.1	49.1
00:55-01:00 HOUR	51.7	48.7
01:00-01:05 HOUR	53.5	47.4
01:05-01:10 HOUR	51.1	47.7
01:10-01:15 HOUR	50.0	46.6
01:15-01:20 HOUR	50.3	47.4
01:20-01:25 HOUR	49.9	47.7
01:25-01:30 HOUR	57.6	47.8
01:30-01:35 HOUR	54.9	47.8
01:35-01:40 HOUR	53.2	47.7
01:40-01:45 HOUR	50.3	46.7
01:45-01:50 HOUR	57.6	47.8
01:50-01:55 HOUR	56.2	47.2
01:55-02:00 HOUR	57.6	46.6
02:00-02:05 HOUR	55.1	46.6
02:05-02:10 HOUR	50.8	46.9
02:10-02:15 HOUR	57.3	45.8
02:15-02:20 HOUR	57.4	46.6
02:20-02:25 HOUR	50.2	46.2
02:25-02:30 HOUR	63.7	46.7
02:30-02:35 HOUR	67.6	46.5
02:35-02:40 HOUR	64.0	47.0
02:40-02:45 HOUR	59.7	46.6
02:45-02:50 HOUR	57.1	45.6
02:50-02:55 HOUR	49.4	45.7
02:55-03:00 HOUR	49.9	46.2

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2024-05-27/045

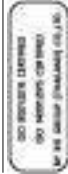




ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICE(THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 1,1TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 064 343 6707 e-mail : Ladawanjumo@gmail.com  
**MEASURING SOURCE** : N6 หมู่บ้านถ้ำเตาเหล็ก ตำบลบางพลีใหญ่ อำเภอบางพลี จังหวัดสมุทรปราการ  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : JUNE 8-13, 2024  
**MEASURING TIME** : JUNE 8-13, 2024  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : MR THANAT LERTPRASERT  
**RECEIVED DATE** : JUNE 8-13, 2024  
**ANALYTICAL DATE** : JUNE 8-13, 2024  
**ISSUE DATE** : JUNE 21, 2024  
**REPORT NO.** : 2024-U054806  
**WORK NO.** : 2023-001873  
**ANALYSIS NO.** : T24AN043-0001 - T24AN043-0005

TIME*	RESULT dB(A)				
	N6 หมู่บ้านถ้ำเตาเหล็ก ตำบลบางพลีใหญ่ อำเภอบางพลี จังหวัดสมุทรปราการ				
	JUNE 8 - 9, 2024 T24AN043-0001				
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour	L <sub>Aeq</sub> 8 hours	
10:00-11:00 HOUR	65.1	95.2	58.2	-	
11:00-12:00 HOUR	65.8	92.8	58.9	-	
12:00-13:00 HOUR	60.5	84.3	54.9	-	
13:00-14:00 HOUR	61.5	87.1	55.4	-	
14:00-15:00 HOUR	60.2	78.2	55.1	-	
15:00-16:00 HOUR	62.1	87.4	54.8	-	
16:00-17:00 HOUR	61.2	85.0	55.1	-	
17:00-18:00 HOUR	61.1	96.1	55.9	62.7	
18:00-19:00 HOUR	61.1	81.5	56.6	-	
19:00-20:00 HOUR	61.0	84.5	54.8	-	
20:00-21:00 HOUR	58.9	76.6	54.1	-	
21:00-22:00 HOUR	58.4	73.6	53.5	-	
22:00-23:00 HOUR	60.5	78.3	54.8	-	
23:00-00:00 HOUR	58.5	80.1	52.7	-	
00:00-01:00 HOUR	58.1	79.2	53.1	-	
01:00-02:00 HOUR	56.7	73.2	52.4	59.4	
02:00-03:00 HOUR	55.6	77.3	52.5	-	
03:00-04:00 HOUR	55.3	72.4	52.7	-	
04:00-05:00 HOUR	56.0	77.5	53.3	-	
05:00-06:00 HOUR	58.5	78.1	54.3	-	
06:00-07:00 HOUR	60.8	84.1	55.6	-	
07:00-08:00 HOUR	59.4	80.6	54.6	-	
08:00-09:00 HOUR	63.0	94.0	56.6	-	
09:00-10:00 HOUR	60.3	87.2	55.1	59.4	
L <sub>Aeq</sub> 24 hours	60.8				



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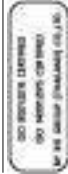
RESULT dB(A)

TIME*	N6 หมู่บ้านถ้ำเตาเหล็ก ตำบลบางพลีใหญ่ อำเภอบางพลี จังหวัดสมุทรปราการ				
	JUNE 9 - 10, 2024 T24AN043-0002				
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour	L <sub>Aeq</sub> 8 hours	
10:00-11:00 HOUR	60.5	89.9	55.4	-	
11:00-12:00 HOUR	59.5	81.6	54.9	-	
12:00-13:00 HOUR	59.8	86.5	55.1	-	
13:00-14:00 HOUR	60.6	77.9	55.6	-	
14:00-15:00 HOUR	59.4	74.0	55.2	-	
15:00-16:00 HOUR	60.8	85.9	56.1	-	
16:00-17:00 HOUR	63.2	90.6	57.2	-	
17:00-18:00 HOUR	66.8	81.4	60.4	62.1	
18:00-19:00 HOUR	63.9	80.1	58.6	-	
19:00-20:00 HOUR	60.3	76.2	55.2	-	
20:00-21:00 HOUR	58.9	75.5	54.4	-	
21:00-22:00 HOUR	59.4	81.3	53.7	-	
22:00-23:00 HOUR	58.3	77.5	53.5	-	
23:00-00:00 HOUR	56.6	75.0	53.3	-	
00:00-01:00 HOUR	58.5	83.7	53.9	-	
01:00-02:00 HOUR	56.8	71.7	53.9	59.7	
02:00-03:00 HOUR	58.1	78.2	53.7	-	
03:00-04:00 HOUR	56.2	74.5	53.6	-	
04:00-05:00 HOUR	57.9	73.7	54.8	-	
05:00-06:00 HOUR	59.9	76.1	55.7	-	
06:00-07:00 HOUR	61.5	87.2	56.2	-	
07:00-08:00 HOUR	61.1	79.2	56.9	-	
08:00-09:00 HOUR	62.8	89.2	57.1	-	
09:00-10:00 HOUR	63.2	91.3	56.6	60.7	
L <sub>Aeq</sub> 24 hours	61.0				



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TIME*	RESULT dB(A)				
	N6 หมู่บ้านกสิวิทย์ เทศบาลเมืองลำปาง จังหวัดลำปาง				
	JUNE 10 - 11, 2024				
	T24AN043-0003				
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour	L <sub>Aeq</sub> 8 hours	
10:00-11:00 HOUR	62.7	89.3	57.7	-	-
11:00-12:00 HOUR	61.9	83.7	57.3	-	-
12:00-13:00 HOUR	61.2	79.4	56.7	-	-
13:00-14:00 HOUR	61.7	82.2	57.4	-	-
14:00-15:00 HOUR	60.5	79.4	56.6	-	-
15:00-16:00 HOUR	60.8	86.8	57.2	-	-
16:00-17:00 HOUR	61.0	85.4	57.3	-	-
17:00-18:00 HOUR	62.0	77.4	58.1	61.5	-
18:00-19:00 HOUR	61.2	78.6	57.6	-	-
19:00-20:00 HOUR	60.1	73.0	56.6	-	-
20:00-21:00 HOUR	60.2	76.5	56.5	-	-
21:00-22:00 HOUR	60.0	78.0	56.2	-	-
22:00-23:00 HOUR	58.7	75.3	55.7	-	-
23:00-00:00 HOUR	59.7	77.7	55.9	-	-
00:00-01:00 HOUR	60.0	79.7	56.6	-	-
01:00-02:00 HOUR	59.4	77.8	56.1	60.0	-
02:00-03:00 HOUR	58.5	79.1	55.9	-	-
03:00-04:00 HOUR	57.3	67.4	55.7	-	-
04:00-05:00 HOUR	57.9	80.1	56.0	-	-
05:00-06:00 HOUR	59.4	76.7	56.3	-	-
06:00-07:00 HOUR	61.0	79.1	57.3	-	-
07:00-08:00 HOUR	61.5	89.1	57.4	-	-
08:00-09:00 HOUR	62.2	90.4	57.1	-	-
09:00-10:00 HOUR	60.7	90.2	56.7	60.1	-
L <sub>Aeq</sub> 24 hours	60.6				



TIME*	RESULT dB(A)				
	N6 หมู่บ้านกสิวิทย์ เทศบาลเมืองลำปาง จังหวัดลำปาง				
	JUNE 11 - 12, 2024				
	T24AN043-0004				
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour	L <sub>Aeq</sub> 8 hours	
10:00-11:00 HOUR	62.2	91.1	56.7	-	-
11:00-12:00 HOUR	59.7	79.1	55.9	-	-
12:00-13:00 HOUR	60.6	87.3	55.4	-	-
13:00-14:00 HOUR	64.7	88.3	59.1	-	-
14:00-15:00 HOUR	67.5	85.5	60.1	-	-
15:00-16:00 HOUR	66.7	91.2	57.9	-	-
16:00-17:00 HOUR	68.7	92.2	58.3	-	-
17:00-18:00 HOUR	62.3	77.3	58.7	65.1	-
18:00-19:00 HOUR	61.2	80.9	57.1	-	-
19:00-20:00 HOUR	60.6	74.9	56.5	-	-
20:00-21:00 HOUR	60.4	75.9	56.6	-	-
21:00-22:00 HOUR	60.6	77.0	56.5	-	-
22:00-23:00 HOUR	59.1	74.5	55.3	-	-
23:00-00:00 HOUR	59.1	75.2	55.4	-	-
00:00-01:00 HOUR	57.2	70.4	54.5	-	-
01:00-02:00 HOUR	57.3	74.7	54.4	59.6	-
02:00-03:00 HOUR	57.0	71.3	54.7	-	-
03:00-04:00 HOUR	56.7	70.5	54.1	-	-
04:00-05:00 HOUR	58.0	73.3	54.4	-	-
05:00-06:00 HOUR	58.9	73.6	56.5	-	-
06:00-07:00 HOUR	60.8	79.7	56.6	-	-
07:00-08:00 HOUR	61.1	77.7	57.2	-	-
08:00-09:00 HOUR	62.5	79.8	57.2	-	-
09:00-10:00 HOUR	63.4	83.9	57.8	60.4	-
L <sub>Aeq</sub> 24 hours	62.5				



RESULT dB(A)				
N6 หมู่บ้านถ้ำเทพารักษ์ ตำบลบางพลีใหญ่ อำเภอบางพลี จังหวัดสมุทรปราการ				
JUNE 12 - 13, 2024				
T24AN043-0005				
TIME*	L <sub>eq</sub> 1 hour	L <sub>max</sub> 1 hour	L <sub>eq</sub> 1 hour	L <sub>eq</sub> 8 hours
10:00-11:00 HOUR	68.8	89.0	58.4	-
11:00-12:00 HOUR	67.8	82.4	56.6	-
12:00-13:00 HOUR	67.9	86.0	56.3	-
13:00-14:00 HOUR	68.2	88.9	57.0	-
14:00-15:00 HOUR	69.4	85.2	58.3	-
15:00-16:00 HOUR	65.5	92.1	57.5	-
16:00-17:00 HOUR	66.5	81.7	57.4	-
17:00-18:00 HOUR	62.7	86.6	57.7	67.5
18:00-19:00 HOUR	61.3	74.8	58.4	-
19:00-20:00 HOUR	60.5	74.3	57.3	-
20:00-21:00 HOUR	59.7	72.5	56.3	-
21:00-22:00 HOUR	60.3	75.4	56.6	-
22:00-23:00 HOUR	59.9	74.1	56.0	-
23:00-00:00 HOUR	58.4	73.8	55.6	-
00:00-01:00 HOUR	59.2	85.0	55.2	-
01:00-02:00 HOUR	60.6	76.7	55.4	60.1
02:00-03:00 HOUR	57.1	68.7	55.1	-
03:00-04:00 HOUR	80.2	57.7	54.5	-
04:00-05:00 HOUR	58.4	84.5	54.6	-
05:00-06:00 HOUR	58.4	83.6	55.1	-
06:00-07:00 HOUR	60.5	76.0	56.6	-
07:00-08:00 HOUR	62.1	82.6	57.1	-
08:00-09:00 HOUR	65.3	90.8	61.6	-
09:00-10:00 HOUR	66.4	85.9	59.3	62.1
L <sub>eq</sub> 24 hours	64.4			

.....  
  
(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
CUSTOMER NAME : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
ADDRESS : 555 MASA TOWER 1, 11TH FLOOR, 501 MAHAULOTHIEN 19 ROAD, CHATHUCHAK CHATUCHAK  
BANGKOK 10600

CONTACT INFORMATION : TEL : 064 343 0007 E-MAIL : unitedanalyst@gmail.com

MEASURING SOURCE : (MS) เครื่องวัดเสียงแบบเคลื่อนย้ายได้ (เคลื่อนย้ายได้)

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : JUNE 8-13, 2024

MEASURING TIME : \*

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR THANAT LERTPHASERT

RECEIVED DATE : JUNE 10-13, 2024

ANALYTICAL DATE : JUNE 10-13, 2024

ISSUE DATE : JUNE 21, 2024

REPORT NO. : 2024-U055160

WORK NO. : 2023-001873

ANALYSIS NO. : T24AN043-0005

TIME*	N6 หมู่บ้านถ้ำเทพารักษ์ ตำบลบางพลีใหญ่ อำเภอบางพลี จังหวัดสมุทรปราการ	
	RESULT dB(A)	
	JUNE 8 - 9, 2024	
	T24AN043-0001	
	L <sub>eq</sub> 5 min	L <sub>eq</sub> 1 min
10:00-10:05 HOUR	65.0	58.2
10:05-10:10 HOUR	63.6	57.0
10:10-10:15 HOUR	62.2	57.1
10:15-10:20 HOUR	65.8	57.9
10:20-10:25 HOUR	66.4	58.2
10:25-10:30 HOUR	67.7	59.1
10:30-10:35 HOUR	64.5	59.9
10:35-10:40 HOUR	64.8	58.7
10:40-10:45 HOUR	63.4	58.2
10:45-10:50 HOUR	63.2	58.3
10:50-10:55 HOUR	65.4	59.2
10:55-11:00 HOUR	64.1	58.6
11:00-11:05 HOUR	68.1	59.0
11:05-11:10 HOUR	65.8	59.4
11:10-11:15 HOUR	66.5	58.9
11:15-11:20 HOUR	65.2	58.3
11:20-11:25 HOUR	64.8	58.7
11:25-11:30 HOUR	68.1	58.5
11:30-11:35 HOUR	67.2	60.2
11:35-11:40 HOUR	68.0	58.3
11:40-11:45 HOUR	61.8	54.8
11:45-11:50 HOUR	60.2	58.6
11:50-11:55 HOUR	61.2	55.0
11:55-12:00 HOUR	59.3	55.1
12:00-12:05 HOUR	59.6	56.2
12:05-12:10 HOUR	61.4	56.5
12:10-12:15 HOUR	60.3	56.4
12:15-12:20 HOUR	60.8	56.5
12:20-12:25 HOUR	59.8	54.5
12:25-12:30 HOUR	59.8	54.9
12:30-12:35 HOUR	59.8	54.4
12:35-12:40 HOUR	58.9	55.5
12:40-12:45 HOUR	59.8	55.5
12:45-12:50 HOUR	61.7	55.5
12:50-12:55 HOUR	60.1	55.5
12:55-1:00 HOUR	62.7	55.8

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DO NOT WRITE IN THESE  
DO NOT WRITE IN THESE

1/30

MR. BANJONGJAIRUK (SIL) 2024





TIME*	RESULT AB(A)	
	M6 sulphuric acid overfeed amount during designed gas composition	
	Long 3 min	Long 5 min
21:20-21:25 HOUR	56.9	55.6
21:25-21:30 HOUR	61.2	55.8
21:30-21:35 HOUR	58.6	53.5
21:35-21:40 HOUR	60.5	53.5
21:40-21:45 HOUR	58.0	53.8
21:45-21:50 HOUR	54.9	52.7
21:50-21:55 HOUR	60.5	54.4
21:55-22:00 HOUR	61.8	54.4
22:00-22:05 HOUR	57.2	54.6
22:05-22:10 HOUR	63.8	51.5
22:10-22:15 HOUR	59.2	55.2
22:15-22:20 HOUR	63.2	55.6
22:20-22:25 HOUR	57.7	51.6
22:25-22:30 HOUR	58.6	54.9
22:30-22:35 HOUR	59.0	55.5
22:35-22:40 HOUR	58.1	54.2
22:40-22:45 HOUR	58.2	53.6
22:45-22:50 HOUR	61.9	51.9
22:50-22:55 HOUR	59.5	54.7
22:55-23:00 HOUR	59.4	52.9
23:00-23:05 HOUR	56.4	51.6
23:05-23:10 HOUR	55.1	51.4
23:10-23:15 HOUR	59.1	51.8
23:15-23:20 HOUR	57.1	54.2
23:20-23:25 HOUR	56.7	50.3
23:25-23:30 HOUR	61.8	50.3
23:30-23:35 HOUR	57.7	51.4
23:35-23:40 HOUR	55.6	50.7
23:40-23:45 HOUR	58.3	52.0
23:45-23:50 HOUR	58.8	51.2
23:50-23:55 HOUR	56.7	53.8
23:55-00:00 HOUR	56.7	53.3
00:00-00:05 HOUR	56.4	53.2
00:05-00:10 HOUR	56.7	53.8
00:10-00:15 HOUR	56.7	53.3
00:15-00:20 HOUR	56.7	53.2
00:20-00:25 HOUR	57.0	52.5
00:25-00:30 HOUR	58.8	54.4
00:30-00:35 HOUR	51.5	53.3
00:35-00:40 HOUR	57.1	52.8
00:40-00:45 HOUR	58.6	53.6
00:45-00:50 HOUR	58.3	52.8
00:50-00:55 HOUR	58.4	52.7
00:55-01:00 HOUR	58.8	52.8
01:00-01:05 HOUR	58.6	52.4
01:05-01:10 HOUR	58.2	51.5
01:10-01:15 HOUR	58.2	52.2
01:15-01:20 HOUR	54.3	52.1
01:20-01:25 HOUR	54.1	52.0
01:25-01:30 HOUR	57.0	52.1
01:30-01:35 HOUR	57.4	52.2
01:35-01:40 HOUR	57.4	52.2

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4/30

2024-0525160

NO WORKER OFFERED  
 NO WORKER OFFERED  
 NO WORKER OFFERED

TIME*	RESULT AB(A)	
	M6 sulphuric acid overfeed amount during designed gas composition	
	Long 3 min	Long 5 min
01:45-01:50 HOUR	56.4	52.8
01:50-01:55 HOUR	58.0	53.2
01:55-02:00 HOUR	55.7	52.4
02:00-02:05 HOUR	54.8	52.1
02:05-02:10 HOUR	57.9	52.6
02:10-02:15 HOUR	51.7	52.3
02:15-02:20 HOUR	51.4	52.2
02:20-02:25 HOUR	54.2	52.3
02:25-02:30 HOUR	55.0	53.1
02:30-02:35 HOUR	57.3	52.7
02:35-02:40 HOUR	57.4	51.0
02:40-02:45 HOUR	58.7	52.7
02:45-02:50 HOUR	58.5	52.7
02:50-02:55 HOUR	53.9	52.4
02:55-03:00 HOUR	53.7	52.1
03:00-03:05 HOUR	56.7	52.6
03:05-03:10 HOUR	57.2	52.6
03:10-03:15 HOUR	54.5	52.6
03:15-03:20 HOUR	54.3	52.6
03:20-03:25 HOUR	54.4	52.6
03:25-03:30 HOUR	54.7	52.5
03:30-03:35 HOUR	56.2	52.8
03:35-03:40 HOUR	56.8	52.9
03:40-03:45 HOUR	55.4	52.9
03:45-03:50 HOUR	54.5	52.8
03:50-03:55 HOUR	55.2	52.8
03:55-04:00 HOUR	55.4	52.9
04:00-04:05 HOUR	55.0	53.1
04:05-04:10 HOUR	56.7	53.8
04:10-04:15 HOUR	57.5	53.4
04:15-04:20 HOUR	55.1	53.3
04:20-04:25 HOUR	53.6	53.5
04:25-04:30 HOUR	55.4	53.3
04:30-04:35 HOUR	55.3	53.6
04:35-04:40 HOUR	55.2	51.2
04:40-04:45 HOUR	55.7	52.8
04:45-04:50 HOUR	57.1	51.7
04:50-04:55 HOUR	56.5	52.9
04:55-05:00 HOUR	54.9	53.1
05:00-05:05 HOUR	58.2	53.6
05:05-05:10 HOUR	57.2	52.4
05:10-05:15 HOUR	54.4	53.0
05:15-05:20 HOUR	56.0	54.2
05:20-05:25 HOUR	56.4	54.0
05:25-05:30 HOUR	58.0	54.3
05:30-05:35 HOUR	59.6	54.7
05:35-05:40 HOUR	60.0	56.0
05:40-05:45 HOUR	60.5	56.9
05:45-05:50 HOUR	61.7	57.3
05:50-05:55 HOUR	60.4	56.8

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2024-0525160

NO WORKER OFFERED  
 NO WORKER OFFERED  
 NO WORKER OFFERED



TIME*	RESULT (S/A)	
	NG substation internal atmospheric dust and gas concentration	THANON-0001
06:00-06:05 HOUR	59.3	57.0
06:05-06:10 HOUR	62.4	58.6
06:10-06:15 HOUR	60.0	55.7
06:15-06:20 HOUR	61.5	56.6
06:20-06:25 HOUR	62.0	57.6
06:25-06:30 HOUR	59.7	56.1
06:30-06:35 HOUR	58.5	56.6
06:35-06:40 HOUR	59.2	55.6
06:40-06:45 HOUR	61.2	55.4
06:45-06:50 HOUR	61.8	56.8
06:50-06:55 HOUR	59.7	56.4
06:55-07:00 HOUR	61.1	54.5
07:00-07:05 HOUR	59.7	56.4
07:05-07:10 HOUR	59.6	54.3
07:10-07:15 HOUR	58.0	55.1
07:15-07:20 HOUR	58.8	55.1
07:20-07:25 HOUR	57.4	54.3
07:25-07:30 HOUR	57.2	54.4
07:30-07:35 HOUR	58.1	54.0
07:35-07:40 HOUR	61.6	54.8
07:40-07:45 HOUR	59.3	55.1
07:45-07:50 HOUR	61.3	55.2
07:50-07:55 HOUR	59.7	54.8
07:55-08:00 HOUR	60.1	55.8
08:00-08:05 HOUR	59.4	55.1
08:05-08:10 HOUR	59.3	55.7
08:10-08:15 HOUR	62.5	56.2
08:15-08:20 HOUR	61.7	56.5
08:20-08:25 HOUR	60.7	56.1
08:25-08:30 HOUR	59.8	56.6
08:30-08:35 HOUR	64.7	57.3
08:35-08:40 HOUR	60.9	57.0
08:40-08:45 HOUR	61.4	57.4
08:45-08:50 HOUR	63.6	57.8
08:50-08:55 HOUR	68.3	57.5
08:55-09:00 HOUR	62.2	56.8
09:00-09:05 HOUR	59.9	56.7
09:05-09:10 HOUR	61.0	56.9
09:10-09:15 HOUR	59.8	56.9
09:15-09:20 HOUR	62.1	56.1
09:20-09:25 HOUR	59.1	56.6
09:25-09:30 HOUR	59.5	56.1
09:30-09:35 HOUR	59.2	54.9
09:35-09:40 HOUR	58.3	56.0
09:40-09:45 HOUR	59.9	56.0
09:45-09:50 HOUR	58.3	55.0
09:50-09:55 HOUR	58.3	55.0
09:55-10:00 HOUR	68.0	55.2

TIME*	RESULT (S/A)	
	NG substation internal atmospheric dust and gas concentration	THANON-0002
10:00-10:05 HOUR	59.2	55.1
10:05-10:10 HOUR	62.4	55.3
10:10-10:15 HOUR	60.4	55.2
10:15-10:20 HOUR	60.7	55.6
10:20-10:25 HOUR	60.6	55.4
10:25-10:30 HOUR	60.6	55.4
10:30-10:35 HOUR	57.6	54.8
10:35-10:40 HOUR	59.6	55.3
10:40-10:45 HOUR	59.7	56.3
10:45-10:50 HOUR	61.8	55.0
10:50-10:55 HOUR	60.2	55.7
10:55-11:00 HOUR	61.4	56.6
11:00-11:05 HOUR	61.1	57.2
11:05-11:10 HOUR	60.2	56.7
11:10-11:15 HOUR	59.2	55.2
11:15-11:20 HOUR	59.9	54.9
11:20-11:25 HOUR	58.4	54.8
11:25-11:30 HOUR	59.5	55.1
11:30-11:35 HOUR	59.3	54.7
11:35-11:40 HOUR	56.9	54.2
11:40-11:45 HOUR	58.8	54.7
11:45-11:50 HOUR	60.1	54.5
11:50-11:55 HOUR	60.6	55.8
11:55-12:00 HOUR	58.5	54.6
12:00-12:05 HOUR	57.4	54.0
12:05-12:10 HOUR	59.5	55.1
12:10-12:15 HOUR	59.8	54.4
12:15-12:20 HOUR	60.1	55.1
12:20-12:25 HOUR	60.1	55.3
12:25-12:30 HOUR	60.1	55.1
12:30-12:35 HOUR	58.2	55.4
12:35-12:40 HOUR	62.4	55.1
12:40-12:45 HOUR	59.3	55.0
12:45-12:50 HOUR	59.8	56.4
12:50-12:55 HOUR	59.6	55.3
12:55-13:00 HOUR	60.1	55.3
13:00-13:05 HOUR	60.6	55.3
13:05-13:10 HOUR	58.1	54.8
13:10-13:15 HOUR	59.9	55.0
13:15-13:20 HOUR	61.4	56.0
13:20-13:25 HOUR	61.3	56.4
13:25-13:30 HOUR	61.0	56.4
13:30-13:35 HOUR	61.2	55.0
13:35-13:40 HOUR	61.6	56.2
13:40-13:45 HOUR	59.3	55.4
13:45-13:50 HOUR	60.3	55.6
13:50-13:55 HOUR	60.9	54.8
13:55-14:00 HOUR	60.5	55.6
14:00-14:05 HOUR	59.8	55.1
14:05-14:10 HOUR	57.2	54.0
14:10-14:15 HOUR	58.9	55.4





TIME*	RESULT (SEA)	
	NO. INFORMATION PROVIDED BY MANUFACTURER FOR MATERIAL IDENTIFICATION	
	JUNE 9 - 10, 2024 TX46H013-0002	
	Lower 5 min	Lower 1 min
22:45-23:50 HOUR	58.5	53.4
22:50-23:55 HOUR	59.2	53.0
23:00-23:55 HOUR	57.7	53.4
23:00-23:55 HOUR	59.2	53.4
23:05-23:10 HOUR	54.0	53.0
23:10-23:15 HOUR	55.8	53.3
23:15-23:20 HOUR	59.5	53.2
23:20-23:25 HOUR	56.7	53.2
23:25-23:30 HOUR	58.4	53.2
23:30-23:35 HOUR	55.0	53.1
23:35-23:40 HOUR	55.2	53.4
23:40-23:45 HOUR	57.2	53.4
23:45-23:50 HOUR	54.3	53.4
23:50-23:55 HOUR	54.6	53.2
23:55-00:00 HOUR	57.7	53.5
00:00-00:05 HOUR	55.9	53.4
00:05-00:10 HOUR	62.6	53.8
00:10-00:15 HOUR	58.9	54.1
00:15-00:20 HOUR	55.2	53.6
00:20-00:25 HOUR	60.0	53.9
00:25-00:30 HOUR	55.3	54.0
00:30-00:35 HOUR	57.4	53.9
00:35-00:40 HOUR	59.9	54.2
00:40-00:45 HOUR	57.2	53.8
00:45-00:50 HOUR	59.0	53.7
00:50-01:00 HOUR	53.8	54.1
01:00-01:05 HOUR	57.4	53.9
01:05-01:10 HOUR	53.7	53.9
01:10-01:15 HOUR	54.8	54.0
01:15-01:20 HOUR	53.5	54.2
01:20-01:25 HOUR	56.0	53.9
01:25-01:30 HOUR	57.3	54.1
01:30-01:35 HOUR	58.2	53.9
01:35-01:40 HOUR	53.8	53.7
01:40-01:45 HOUR	57.2	53.9
01:45-01:50 HOUR	58.5	54.0
01:50-01:55 HOUR	58.4	53.7
01:55-02:00 HOUR	58.8	53.8
02:00-02:05 HOUR	58.5	53.6
02:05-02:10 HOUR	56.8	53.7
02:10-02:15 HOUR	58.7	53.8
02:15-02:20 HOUR	58.9	53.8
02:20-02:25 HOUR	55.2	53.7
02:25-02:30 HOUR	54.8	53.6
02:30-02:35 HOUR	57.0	53.7
02:35-02:40 HOUR	58.3	53.3
02:40-02:45 HOUR	57.0	53.8
02:45-02:50 HOUR	56.1	53.5
02:50-02:55 HOUR	64.3	53.7
02:55-03:00 HOUR	55.7	53.3

TIME*	RESULT OR(A)		
	M6 sulphated anhydrous formant(101) from 101 and 102		
	JUNE 9 - 10, 2021		
	T24N042-0002		
	Low 5 m	Low 10m	Low 15m
03-00-01:05 HOUR	55.6		53.5
03-01-01:10 HOUR	54.5		50.6
03-02-01:15 HOUR	59.7		55.8
03-03-02:00 HOUR	54.1		55.4
03-04-02:05 HOUR	55.4		53.5
03-05-02:30 HOUR	50.1		54.0
03-06-03:05 HOUR	57.8		53.7
03-07-03:30 HOUR	55.3		53.6
03-08-03:45 HOUR	55.1		53.8
03-09-03:50 HOUR	55.9		53.6
03-10-03:55 HOUR	55.7		53.7
03-11-04:00 HOUR	55.2		53.7
03-12-04:05 HOUR	55.5		53.8
03-13-04:10 HOUR	54.8		53.7
03-14-04:15 HOUR	57.2		53.7
03-15-04:20 HOUR	55.2		53.9
03-16-04:25 HOUR	57.5		54.0
03-17-04:30 HOUR	57.5		54.8
03-18-04:35 HOUR	58.2		55.1
03-19-04:40 HOUR	58.1		55.1
03-20-04:45 HOUR	58.8		55.3
03-21-04:50 HOUR	59.2		55.6
03-22-04:55 HOUR	59.3		56.4
03-23-05:00 HOUR	59.5		58.3
03-24-05:05 HOUR	61.2		57.7
03-25-05:10 HOUR	59.9		58.7
03-26-05:15 HOUR	58.8		54.7
03-27-05:20 HOUR	60.0		56.2
03-28-05:25 HOUR	58.7		55.5
03-29-05:30 HOUR	59.5		55.7
03-30-05:35 HOUR	61.4		56.6
03-31-05:40 HOUR	61.6		54.0
03-32-05:45 HOUR	58.0		54.9
03-33-05:50 HOUR	58.7		55.5
03-34-05:55 HOUR	58.4		55.2
03-35-06:00 HOUR	59.5		55.6
03-36-06:05 HOUR	59.3		56.0
03-37-06:10 HOUR	64.8		58.3
03-38-06:15 HOUR	62.2		55.6
03-39-06:20 HOUR	60.5		56.3
03-40-06:25 HOUR	58.5		55.4
03-41-06:30 HOUR	60.4		56.1
03-42-06:35 HOUR	61.2		56.9
03-43-06:40 HOUR	60.9		55.9
03-44-06:45 HOUR	60.4		56.3
03-45-06:50 HOUR	60.4		57.2
03-46-06:55 HOUR	62.2		57.9
03-47-07:00 HOUR	62.3		56.5
03-48-07:05 HOUR	60.8		57.2
03-49-07:10 HOUR	60.8		56.9
03-50-07:15 HOUR	62.4		57.5

TIME*	RESULT (B/A)	
	MS มีผลการวิเคราะห์และคำนวณค่าความถี่ธรรมชาติของอาคารตามข้อกำหนด JUNE 9 - 10, 2024 T24M043-0002	
	Limit 5 cm	Limit 5 mm
07:15-07:20 HOUR	60.8	51.5
07:20-07:25 HOUR	59.3	51.4
07:25-07:30 HOUR	60.3	52.2
07:30-07:35 HOUR	60.3	52.4
07:35-07:40 HOUR	61.8	51.4
07:40-07:45 HOUR	60.7	51.0
07:45-07:50 HOUR	61.6	51.7
07:50-07:55 HOUR	61.8	51.0
07:55-08:00 HOUR	61.4	51.7
08:00-08:05 HOUR	61.9	52.2
08:05-08:10 HOUR	62.7	52.2
08:10-08:15 HOUR	61.0	52.0
08:15-08:20 HOUR	61.6	51.4
08:20-08:25 HOUR	61.6	52.3
08:25-08:30 HOUR	61.7	51.7
08:30-08:35 HOUR	60.7	51.0
08:35-08:40 HOUR	60.5	51.5
08:40-08:45 HOUR	61.8	51.4
08:45-08:50 HOUR	61.8	51.6
08:50-08:55 HOUR	62.2	52.2
08:55-09:00 HOUR	64.2	51.0
09:00-09:05 HOUR	62.9	51.5
09:05-09:10 HOUR	62.6	52.3
09:10-09:15 HOUR	59.5	51.3
09:15-09:20 HOUR	63.1	51.6
09:20-09:25 HOUR	60.9	51.5
09:25-09:30 HOUR	62.1	51.8
09:30-09:35 HOUR	60.0	51.3
09:35-09:40 HOUR	61.2	52.3
09:40-09:45 HOUR	61.1	52.0
09:45-09:50 HOUR	60.7	53.2
09:50-09:55 HOUR	64.1	51.6
09:55-10:00 HOUR	63.8	52.2

TIME*	RESULT (B/A)	
	MS มีผลการวิเคราะห์และคำนวณค่าความถี่ธรรมชาติของอาคารตามข้อกำหนด JUNE 10 - 13, 2024 T24M043-0003	
	Limit 5 cm	Limit 5 mm
10:00-10:05 HOUR	63.7	51.5
10:05-10:10 HOUR	63.2	51.9
10:10-10:15 HOUR	62.1	51.4
10:15-10:20 HOUR	64.4	51.5
10:20-10:25 HOUR	62.4	51.8
10:25-10:30 HOUR	62.4	51.5
10:30-10:35 HOUR	62.6	52.2
10:35-10:40 HOUR	62.8	52.3
10:40-10:45 HOUR	61.0	52.8
10:45-10:50 HOUR	61.1	52.6
10:50-10:55 HOUR	64.0	52.7
10:55-11:00 HOUR	61.3	51.0
11:00-11:05 HOUR	61.8	51.1
11:05-11:10 HOUR	62.1	52.9
11:10-11:15 HOUR	60.2	52.2
11:15-11:20 HOUR	61.7	52.2
11:20-11:25 HOUR	63.9	52.7
11:25-11:30 HOUR	61.8	51.4
11:30-11:35 HOUR	61.1	52.7
11:35-11:40 HOUR	59.8	52.2
11:40-11:45 HOUR	64.5	52.3
11:45-11:50 HOUR	58.2	51.2
11:50-11:55 HOUR	63.4	51.9
11:55-12:00 HOUR	60.9	52.5
12:00-12:05 HOUR	61.3	52.5
12:05-12:10 HOUR	59.3	51.5
12:10-12:15 HOUR	60.4	51.8
12:15-12:20 HOUR	59.2	51.2
12:20-12:25 HOUR	59.9	51.6
12:25-12:30 HOUR	60.4	51.4
12:30-12:35 HOUR	60.7	51.8
12:35-12:40 HOUR	60.3	51.6
12:40-12:45 HOUR	61.2	52.9
12:45-12:50 HOUR	58.5	51.6
12:50-12:55 HOUR	62.5	51.8
12:55-13:00 HOUR	61.4	51.8
13:00-13:05 HOUR	62.1	51.2
13:05-13:10 HOUR	61.8	52.6
13:10-13:15 HOUR	63.0	51.7
13:15-13:20 HOUR	60.8	52.2
13:20-13:25 HOUR	59.4	52.5
13:25-13:30 HOUR	62.1	51.4
13:30-13:35 HOUR	63.2	52.4
13:35-13:40 HOUR	60.1	52.2
13:40-13:45 HOUR	60.7	52.1
13:45-13:50 HOUR	63.1	51.0
13:50-13:55 HOUR	62.3	52.1
13:55-14:00 HOUR	58.8	51.1
14:00-14:05 HOUR	59.1	51.2
14:05-14:10 HOUR	61.2	52.8
14:10-14:15 HOUR	62.1	51.1



TIME*	RESULT (dB(A))	
	1 Aug 8 am	1 Aug 9 am
14:15-14:20 HOUR	62.9	57.6
14:20-14:25 HOUR	60.0	56.0
14:25-14:30 HOUR	58.4	56.4
14:30-14:35 HOUR	58.8	56.4
14:35-14:40 HOUR	59.2	56.2
14:40-14:45 HOUR	60.5	56.4
14:45-14:50 HOUR	62.0	57.2
14:50-14:55 HOUR	59.7	56.9
14:55-15:00 HOUR	59.4	56.4
15:00-15:05 HOUR	61.0	57.0
15:05-15:10 HOUR	60.5	56.9
15:10-15:15 HOUR	62.8	57.4
15:15-15:20 HOUR	59.4	56.8
15:20-15:25 HOUR	61.8	56.7
15:25-15:30 HOUR	59.7	56.9
15:30-15:35 HOUR	61.0	57.4
15:35-15:40 HOUR	59.5	57.3
15:40-15:45 HOUR	61.6	57.6
15:45-15:50 HOUR	60.8	57.8
15:50-15:55 HOUR	61.3	57.8
15:55-16:00 HOUR	59.1	57.3
16:00-16:05 HOUR	61.5	57.4
16:05-16:10 HOUR	61.2	57.5
16:10-16:15 HOUR	58.8	56.9
16:15-16:20 HOUR	61.7	57.2
16:20-16:25 HOUR	62.6	57.9
16:25-16:30 HOUR	60.6	57.1
16:30-16:35 HOUR	61.7	57.2
16:35-16:40 HOUR	59.5	57.2
16:40-16:45 HOUR	60.9	57.5
16:45-16:50 HOUR	61.5	58.5
16:50-16:55 HOUR	59.8	57.1
16:55-17:00 HOUR	58.5	56.9
17:00-17:05 HOUR	61.9	57.6
17:05-17:10 HOUR	62.4	58.6
17:10-17:15 HOUR	64.1	59.2
17:15-17:20 HOUR	64.1	60.0
17:20-17:25 HOUR	63.1	58.8
17:25-17:30 HOUR	60.9	57.0
17:30-17:35 HOUR	59.3	57.0
17:35-17:40 HOUR	59.7	57.6
17:40-17:45 HOUR	60.7	57.9
17:45-17:50 HOUR	61.2	57.6
17:50-17:55 HOUR	61.1	58.3
17:55-18:00 HOUR	61.9	58.3
18:00-18:05 HOUR	60.4	57.6
18:05-18:10 HOUR	62.4	57.8
18:10-18:15 HOUR	59.0	57.2
18:15-18:20 HOUR	62.1	58.1
18:20-18:25 HOUR	61.4	58.2
18:25-18:30 HOUR	61.7	57.6

TIME*	RESULT (dB(A))	
	1 Aug 8 am	1 Aug 9 am
18:35-18:40 HOUR	57.6	57.7
18:40-18:45 HOUR	52.0	57.7
18:45-18:50 HOUR	61.4	57.1
18:50-18:55 HOUR	58.9	56.5
18:55-19:00 HOUR	59.8	57.2
19:00-19:05 HOUR	60.2	56.9
19:05-19:10 HOUR	59.6	57.1
19:10-19:15 HOUR	59.3	57.1
19:15-19:20 HOUR	60.2	56.2
19:20-19:25 HOUR	58.6	56.8
19:25-19:30 HOUR	61.6	57.2
19:30-19:35 HOUR	59.3	56.8
19:35-19:40 HOUR	60.8	56.0
19:40-19:45 HOUR	60.0	57.1
19:45-19:50 HOUR	58.3	56.2
19:50-19:55 HOUR	60.4	56.3
19:55-20:00 HOUR	60.7	56.5
20:00-20:05 HOUR	63.2	56.1
20:05-20:10 HOUR	61.0	56.8
20:10-20:15 HOUR	60.3	57.3
20:15-20:20 HOUR	61.1	57.3
20:20-20:25 HOUR	61.9	57.1
20:25-20:30 HOUR	60.8	56.4
20:30-20:35 HOUR	59.2	56.0
20:35-20:40 HOUR	60.1	56.5
20:40-20:45 HOUR	60.7	56.8
20:45-20:50 HOUR	58.1	58.0
20:50-20:55 HOUR	58.3	58.3
20:55-21:00 HOUR	60.0	56.4
21:00-21:05 HOUR	59.4	55.9
21:05-21:10 HOUR	60.8	56.2
21:10-21:15 HOUR	59.1	58.3
21:15-21:20 HOUR	58.1	55.6
21:20-21:25 HOUR	61.6	57.3
21:25-21:30 HOUR	62.1	57.2
21:30-21:35 HOUR	62.1	57.0
21:35-21:40 HOUR	59.7	56.4
21:40-21:45 HOUR	58.2	55.9
21:45-21:50 HOUR	58.9	55.8
21:50-21:55 HOUR	60.6	56.0
21:55-22:00 HOUR	59.2	54.2
22:00-22:05 HOUR	57.5	52.6
22:05-22:10 HOUR	59.9	56.5
22:10-22:15 HOUR	58.0	55.8
22:15-22:20 HOUR	56.7	55.0
22:20-22:25 HOUR	57.2	56.7
22:25-22:30 HOUR	58.8	56.3
22:30-22:35 HOUR	59.3	56.3
22:35-22:40 HOUR	60.6	56.9
22:40-22:45 HOUR	58.3	55.5

TIME*	RESULT (dBA)	
	NO. 1 (Mueang 41) - 10110	NO. 2 (Mueang 41) - 10110
22:45-23:00 HOUR	57.8	54.4
23:00-23:15 HOUR	59.2	55.1
23:15-23:30 HOUR	57.8	54.4
23:30-23:45 HOUR	57.3	54.6
23:45-24:00 HOUR	58.0	55.0
24:00-24:15 HOUR	61.6	55.8
24:15-24:30 HOUR	58.7	55.5
24:30-24:45 HOUR	58.4	55.5
24:45-25:00 HOUR	60.6	55.9
25:00-25:15 HOUR	64.3	56.4
25:15-25:30 HOUR	57.6	55.9
25:30-25:45 HOUR	57.7	55.9
25:45-26:00 HOUR	58.0	56.1
26:00-26:15 HOUR	59.2	56.1
26:15-26:30 HOUR	59.4	56.7
26:30-26:45 HOUR	57.6	56.0
26:45-27:00 HOUR	58.0	55.9
27:00-27:15 HOUR	57.9	56.4
27:15-27:30 HOUR	59.8	56.8
27:30-27:45 HOUR	60.9	56.8
27:45-28:00 HOUR	60.4	56.7
28:00-28:15 HOUR	60.8	56.8
28:15-28:30 HOUR	64.6	56.7
28:30-28:45 HOUR	59.0	56.1
28:45-29:00 HOUR	56.9	55.8
29:00-29:15 HOUR	57.8	56.1
29:15-29:30 HOUR	58.1	56.1
29:30-29:45 HOUR	57.9	56.1
29:45-30:00 HOUR	58.7	56.9
30:00-30:15 HOUR	61.8	56.6
30:15-30:30 HOUR	58.2	56.2
30:30-30:45 HOUR	58.9	56.9
30:45-31:00 HOUR	59.2	56.2
31:00-31:15 HOUR	58.5	56.9
31:15-31:30 HOUR	58.6	56.3
31:30-31:45 HOUR	58.6	56.0
31:45-32:00 HOUR	61.3	56.0
32:00-32:15 HOUR	57.8	56.0
32:15-32:30 HOUR	59.7	56.3
32:30-32:45 HOUR	58.1	56.2
32:45-33:00 HOUR	57.6	55.8
33:00-33:15 HOUR	60.9	55.9
33:15-33:30 HOUR	58.0	55.8
33:30-33:45 HOUR	56.9	55.3
33:45-34:00 HOUR	57.8	55.7
34:00-34:15 HOUR	56.3	55.7
34:15-34:30 HOUR	57.8	55.8
34:30-34:45 HOUR	58.1	56.2
34:45-35:00 HOUR	57.6	55.9

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16/10

2024-0555160

NO. 1 (Mueang 41) - 10110  
 NO. 2 (Mueang 41) - 10110  
 NO. 3 (Mueang 41) - 10110

TIME*	RESULT (dBA)	
	NO. 1 (Mueang 41) - 10110	NO. 2 (Mueang 41) - 10110
03:00-03:15 HOUR	56.7	55.4
03:15-03:30 HOUR	56.9	55.2
03:30-03:45 HOUR	57.0	55.2
03:45-04:00 HOUR	57.1	55.8
04:00-04:15 HOUR	57.2	55.6
04:15-04:30 HOUR	57.2	55.5
04:30-04:45 HOUR	57.3	55.4
04:45-05:00 HOUR	57.1	55.6
05:00-05:15 HOUR	57.4	55.8
05:15-05:30 HOUR	57.8	56.0
05:30-05:45 HOUR	57.4	56.0
05:45-06:00 HOUR	57.9	56.3
06:00-06:15 HOUR	58.3	56.3
06:15-06:30 HOUR	57.7	56.9
06:30-06:45 HOUR	57.1	56.9
06:45-07:00 HOUR	57.1	56.9
07:00-07:15 HOUR	57.1	56.9
07:15-07:30 HOUR	57.1	56.9
07:30-07:45 HOUR	57.1	56.9
07:45-08:00 HOUR	57.1	56.9
08:00-08:15 HOUR	57.1	56.9
08:15-08:30 HOUR	57.1	56.9
08:30-08:45 HOUR	57.1	56.9
08:45-09:00 HOUR	57.1	56.9
09:00-09:15 HOUR	57.1	56.9
09:15-09:30 HOUR	57.1	56.9
09:30-09:45 HOUR	57.1	56.9
09:45-10:00 HOUR	57.1	56.9
10:00-10:15 HOUR	57.1	56.9
10:15-10:30 HOUR	57.1	56.9
10:30-10:45 HOUR	57.1	56.9
10:45-11:00 HOUR	57.1	56.9
11:00-11:15 HOUR	57.1	56.9
11:15-11:30 HOUR	57.1	56.9
11:30-11:45 HOUR	57.1	56.9
11:45-12:00 HOUR	57.1	56.9
12:00-12:15 HOUR	57.1	56.9
12:15-12:30 HOUR	57.1	56.9
12:30-12:45 HOUR	57.1	56.9
12:45-13:00 HOUR	57.1	56.9
13:00-13:15 HOUR	57.1	56.9
13:15-13:30 HOUR	57.1	56.9
13:30-13:45 HOUR	57.1	56.9
13:45-14:00 HOUR	57.1	56.9
14:00-14:15 HOUR	57.1	56.9
14:15-14:30 HOUR	57.1	56.9
14:30-14:45 HOUR	57.1	56.9
14:45-15:00 HOUR	57.1	56.9
15:00-15:15 HOUR	57.1	56.9
15:15-15:30 HOUR	57.1	56.9
15:30-15:45 HOUR	57.1	56.9
15:45-16:00 HOUR	57.1	56.9
16:00-16:15 HOUR	57.1	56.9
16:15-16:30 HOUR	57.1	56.9
16:30-16:45 HOUR	57.1	56.9
16:45-17:00 HOUR	57.1	56.9
17:00-17:15 HOUR	57.1	56.9
17:15-17:30 HOUR	57.1	56.9
17:30-17:45 HOUR	57.1	56.9
17:45-18:00 HOUR	57.1	56.9
18:00-18:15 HOUR	57.1	56.9
18:15-18:30 HOUR	57.1	56.9
18:30-18:45 HOUR	57.1	56.9
18:45-19:00 HOUR	57.1	56.9
19:00-19:15 HOUR	57.1	56.9
19:15-19:30 HOUR	57.1	56.9
19:30-19:45 HOUR	57.1	56.9
19:45-20:00 HOUR	57.1	56.9
20:00-20:15 HOUR	57.1	56.9
20:15-20:30 HOUR	57.1	56.9
20:30-20:45 HOUR	57.1	56.9
20:45-21:00 HOUR	57.1	56.9
21:00-21:15 HOUR	57.1	56.9
21:15-21:30 HOUR	57.1	56.9
21:30-21:45 HOUR	57.1	56.9
21:45-22:00 HOUR	57.1	56.9
22:00-22:15 HOUR	57.1	56.9
22:15-22:30 HOUR	57.1	56.9
22:30-22:45 HOUR	57.1	56.9
22:45-23:00 HOUR	57.1	56.9
23:00-23:15 HOUR	57.1	56.9
23:15-23:30 HOUR	57.1	56.9
23:30-23:45 HOUR	57.1	56.9
23:45-24:00 HOUR	57.1	56.9
24:00-24:15 HOUR	57.1	56.9
24:15-24:30 HOUR	57.1	56.9
24:30-24:45 HOUR	57.1	56.9
24:45-25:00 HOUR	57.1	56.9
25:00-25:15 HOUR	57.1	56.9
25:15-25:30 HOUR	57.1	56.9
25:30-25:45 HOUR	57.1	56.9
25:45-26:00 HOUR	57.1	56.9
26:00-26:15 HOUR	57.1	56.9
26:15-26:30 HOUR	57.1	56.9
26:30-26:45 HOUR	57.1	56.9
26:45-27:00 HOUR	57.1	56.9
27:00-27:15 HOUR	57.1	56.9
27:15-27:30 HOUR	57.1	56.9
27:30-27:45 HOUR	57.1	56.9
27:45-28:00 HOUR	57.1	56.9
28:00-28:15 HOUR	57.1	56.9
28:15-28:30 HOUR	57.1	56.9
28:30-28:45 HOUR	57.1	56.9
28:45-29:00 HOUR	57.1	56.9
29:00-29:15 HOUR	57.1	56.9
29:15-29:30 HOUR	57.1	56.9
29:30-29:45 HOUR	57.1	56.9
29:45-30:00 HOUR	57.1	56.9
30:00-30:15 HOUR	57.1	56.9
30:15-30:30 HOUR	57.1	56.9
30:30-30:45 HOUR	57.1	56.9
30:45-31:00 HOUR	57.1	56.9
31:00-31:15 HOUR	57.1	56.9
31:15-31:30 HOUR	57.1	56.9
31:30-31:45 HOUR	57.1	56.9
31:45-32:00 HOUR	57.1	56.9
32:00-32:15 HOUR	57.1	56.9
32:15-32:30 HOUR	57.1	56.9
32:30-32:45 HOUR	57.1	56.9
32:45-33:00 HOUR	57.1	56.9
33:00-33:15 HOUR	57.1	56.9
33:15-33:30 HOUR	57.1	56.9
33:30-33:45 HOUR	57.1	56.9
33:45-34:00 HOUR	57.1	56.9
34:00-34:15 HOUR	57.1	56.9
34:15-34:30 HOUR	57.1	56.9
34:30-34:45 HOUR	57.1	56.9
34:45-35:00 HOUR	57.1	56.9

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2024-0555160

NO. 1 (Mueang 41) - 10110  
 NO. 2 (Mueang 41) - 10110  
 NO. 3 (Mueang 41) - 10110

TIME*	RESULT (dBA)	
	1m 3 min	1m 5 min
07:15-07:20 HOUR	62.3	57.4
07:20-07:25 HOUR	63.9	58.5
07:25-07:30 HOUR	61.0	58.4
07:30-07:35 HOUR	61.1	57.0
07:35-07:40 HOUR	61.4	57.5
07:40-07:45 HOUR	60.8	57.0
07:45-07:50 HOUR	61.3	57.3
07:50-07:55 HOUR	61.7	57.5
07:55-08:00 HOUR	60.4	56.7
08:00-08:05 HOUR	62.3	56.8
08:05-08:10 HOUR	61.8	57.1
08:10-08:15 HOUR	62.3	56.6
08:15-08:20 HOUR	64.9	58.5
08:20-08:25 HOUR	62.5	57.5
08:25-08:30 HOUR	62.6	56.7
08:30-08:35 HOUR	59.9	56.8
08:35-08:40 HOUR	63.9	57.5
08:40-08:45 HOUR	63.1	57.1
08:45-08:50 HOUR	61.9	56.6
08:50-08:55 HOUR	62.2	57.1
08:55-09:00 HOUR	62.1	57.0
09:00-09:05 HOUR	61.7	57.2
09:05-09:10 HOUR	61.0	57.2
09:10-09:15 HOUR	61.5	56.6
09:15-09:20 HOUR	60.2	57.1
09:20-09:25 HOUR	62.2	57.0
09:25-09:30 HOUR	59.2	55.9
09:30-09:35 HOUR	59.1	56.1
09:35-09:40 HOUR	60.5	55.3
09:40-09:45 HOUR	61.2	56.5
09:45-09:50 HOUR	61.1	56.8
09:50-09:55 HOUR	59.3	56.0
09:55-10:00 HOUR	60.4	56.8

TIME*	RESULT (dBA)	
	1m 3 min	1m 5 min
10:05-10:10 HOUR	60.5	56.9
10:10-10:15 HOUR	60.1	57.9
10:15-10:20 HOUR	59.6	56.6
10:20-10:25 HOUR	64.5	56.8
10:25-10:30 HOUR	64.8	57.0
10:30-10:35 HOUR	62.4	56.4
10:35-10:40 HOUR	62.6	55.3
10:40-10:45 HOUR	60.6	54.6
10:45-10:50 HOUR	61.3	55.4
10:50-10:55 HOUR	61.6	57.0
10:55-11:00 HOUR	61.8	57.0
11:00-11:05 HOUR	62.3	56.3
11:05-11:10 HOUR	62.7	57.1
11:10-11:15 HOUR	59.8	56.2
11:15-11:20 HOUR	61.0	56.7
11:20-11:25 HOUR	58.5	56.6
11:25-11:30 HOUR	58.4	56.3
11:30-11:35 HOUR	58.9	54.4
11:35-11:40 HOUR	58.8	55.6
11:40-11:45 HOUR	57.4	54.3
11:45-11:50 HOUR	58.0	55.2
11:50-11:55 HOUR	60.1	56.2
11:55-12:00 HOUR	58.4	54.9
12:00-12:05 HOUR	57.4	54.0
12:05-12:10 HOUR	58.7	54.7
12:10-12:15 HOUR	60.9	54.7
12:15-12:20 HOUR	60.1	55.4
12:20-12:25 HOUR	58.3	54.1
12:25-12:30 HOUR	58.2	54.9
12:30-12:35 HOUR	60.9	56.0
12:35-12:40 HOUR	61.9	55.8
12:40-12:45 HOUR	63.1	56.2
12:45-12:50 HOUR	59.5	55.4
12:50-12:55 HOUR	57.7	55.3
12:55-13:00 HOUR	61.6	55.5
13:00-13:05 HOUR	61.3	57.1
13:05-13:10 HOUR	62.1	56.7
13:10-13:15 HOUR	63.9	57.7
13:15-13:20 HOUR	63.4	58.5
13:20-13:25 HOUR	64.2	58.7
13:25-13:30 HOUR	64.4	58.9
13:30-13:35 HOUR	63.4	58.5
13:35-13:40 HOUR	65.7	61.3
13:40-13:45 HOUR	66.4	62.0
13:45-13:50 HOUR	65.7	62.4
13:50-13:55 HOUR	66.1	62.6
13:55-14:00 HOUR	65.6	59.6
14:00-14:05 HOUR	68.8	66.4
14:05-14:10 HOUR	68.5	58.6
14:10-14:15 HOUR	63.6	54.3





United Analyst and Engineering Consultant Co., Ltd.  
354 Uthairat Rd., Sukhumvit Road, Bangkok, Thailand 10110  
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TIME*	RESULT (dB(A))	
	MS multi-point method (ตามวิธีมาตรฐาน)	ISO 9612 method (ตามวิธีมาตรฐาน)
	June 11 - 12, 2024	June 11 - 12, 2024
	T24H043-0004	T24H043-0004
14:15-14:20 HOUR	58.3	56.9
14:20-14:25 HOUR	55.1	51.2
14:25-14:30 HOUR	57.9	50.8
14:30-14:35 HOUR	60.3	58.2
14:35-14:40 HOUR	68.7	62.4
14:40-14:45 HOUR	67.2	59.3
14:45-14:50 HOUR	69.3	58.1
14:50-14:55 HOUR	62.7	57.3
14:55-15:00 HOUR	65.3	58.8
15:00-15:05 HOUR	66.3	58.0
15:05-15:10 HOUR	71.0	61.2
15:10-15:15 HOUR	69.1	57.3
15:15-15:20 HOUR	62.7	57.1
15:20-15:25 HOUR	63.8	57.4
15:25-15:30 HOUR	71.2	57.9
15:30-15:35 HOUR	68.9	57.7
15:35-15:40 HOUR	62.8	58.5
15:40-15:45 HOUR	64.2	59.6
15:45-15:50 HOUR	62.9	57.8
15:50-15:55 HOUR	63.8	58.2
15:55-16:00 HOUR	65.6	57.8
16:00-16:05 HOUR	63.2	57.6
16:05-16:10 HOUR	63.1	58.7
16:10-16:15 HOUR	64.8	58.7
16:15-16:20 HOUR	64.0	58.9
16:20-16:25 HOUR	71.6	58.3
16:25-16:30 HOUR	71.9	59.7
16:30-16:35 HOUR	68.1	58.2
16:35-16:40 HOUR	64.8	57.3
16:40-16:45 HOUR	70.7	57.8
16:45-16:50 HOUR	71.7	61.0
16:50-16:55 HOUR	60.8	57.1
16:55-17:00 HOUR	60.8	57.8
17:00-17:05 HOUR	62.5	58.6
17:05-17:10 HOUR	62.4	58.0
17:10-17:15 HOUR	62.5	59.6
17:15-17:20 HOUR	62.0	58.7
17:20-17:25 HOUR	61.3	59.3
17:25-17:30 HOUR	64.7	66.0
17:30-17:35 HOUR	61.3	57.5
17:35-17:40 HOUR	61.6	57.8
17:40-17:45 HOUR	60.3	58.5
17:45-17:50 HOUR	62.9	58.7
17:50-17:55 HOUR	62.1	57.8
17:55-18:00 HOUR	61.3	58.4
18:00-18:05 HOUR	61.3	58.2
18:05-18:10 HOUR	64.2	58.4
18:10-18:15 HOUR	62.2	58.1
18:15-18:20 HOUR	63.1	57.0
18:20-18:25 HOUR	58.8	56.5
18:25-18:30 HOUR	62.3	57.3

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BY THE LABORATORY (LJAE)



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TIME*	RESULT (dB(A))	
	MS multi-point method (ตามวิธีมาตรฐาน)	ISO 9612 method (ตามวิธีมาตรฐาน)
	June 11 - 12, 2024	June 11 - 12, 2024
	T24H043-0004	T24H043-0004
18:30-18:35 HOUR	61.3	56.9
18:35-18:40 HOUR	60.0	57.0
18:40-18:45 HOUR	61.1	57.2
18:45-18:50 HOUR	59.6	56.7
18:50-18:55 HOUR	61.4	57.1
18:55-19:00 HOUR	62.2	56.5
19:00-19:05 HOUR	61.2	56.6
19:05-19:10 HOUR	62.2	57.3
19:10-19:15 HOUR	60.7	56.4
19:15-19:20 HOUR	58.6	56.0
19:20-19:25 HOUR	59.5	56.2
19:25-19:30 HOUR	60.8	57.1
19:30-19:35 HOUR	60.5	56.3
19:35-19:40 HOUR	60.8	58.6
19:40-19:45 HOUR	61.1	62.2
19:45-19:50 HOUR	61.4	56.9
19:50-19:55 HOUR	59.1	58.2
19:55-20:00 HOUR	59.8	56.3
20:00-20:05 HOUR	59.7	56.5
20:05-20:10 HOUR	60.8	57.0
20:10-20:15 HOUR	61.2	57.6
20:15-20:20 HOUR	60.7	57.0
20:20-20:25 HOUR	61.6	56.4
20:25-20:30 HOUR	59.3	56.3
20:30-20:35 HOUR	58.7	55.9
20:35-20:40 HOUR	59.7	56.0
20:40-20:45 HOUR	59.1	56.7
20:45-20:50 HOUR	61.3	57.7
20:50-20:55 HOUR	61.3	56.7
20:55-21:00 HOUR	59.7	56.1
21:00-21:05 HOUR	60.1	56.5
21:05-21:10 HOUR	62.7	57.3
21:10-21:15 HOUR	61.2	56.5
21:15-21:20 HOUR	61.7	56.3
21:20-21:25 HOUR	59.4	56.9
21:25-21:30 HOUR	60.7	56.3
21:30-21:35 HOUR	57.8	55.6
21:35-21:40 HOUR	61.3	56.9
21:40-21:45 HOUR	58.6	56.6
21:45-21:50 HOUR	58.5	55.5
21:50-21:55 HOUR	58.8	56.3
21:55-22:00 HOUR	62.4	56.8
22:00-22:05 HOUR	59.5	56.4
22:05-22:10 HOUR	60.5	55.9
22:10-22:15 HOUR	57.1	55.4
22:15-22:20 HOUR	57.0	54.9
22:20-22:25 HOUR	56.3	54.9
22:25-22:30 HOUR	60.7	54.9
22:30-22:35 HOUR	60.0	55.7
22:35-22:40 HOUR	57.8	55.1
22:40-22:45 HOUR	59.6	55.4

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BY THE LABORATORY (LJAE)

TIME*	RESULT (KPa)	
	M6 subgrade material strength (bearing capacity) at 100mm	M6 subgrade material strength (bearing capacity) at 100mm
	Low 3 sec	Low 5 sec
22-45-22:30 HOUR	59.7	56.0
22-50-22:35 HOUR	59.4	54.8
22-55-22:40 HOUR	58.1	54.7
23-00-22:45 HOUR	59.3	55.5
23-05-22:50 HOUR	58.1	55.8
23-10-22:55 HOUR	58.1	55.5
23-15-23:00 HOUR	57.8	55.1
23-20-23:05 HOUR	60.4	55.6
23-25-23:10 HOUR	57.7	55.5
23-30-23:15 HOUR	61.8	55.4
23-35-23:20 HOUR	57.7	55.3
23-40-23:25 HOUR	58.0	55.3
23-45-23:30 HOUR	57.9	55.0
23-50-23:35 HOUR	59.3	54.8
23-55-00:00 HOUR	60.1	55.3
00:00-00:05 HOUR	58.5	54.9
00:05-00:10 HOUR	58.7	54.9
00:10-00:15 HOUR	58.4	54.5
00:15-00:20 HOUR	57.5	54.6
00:20-00:25 HOUR	57.9	54.5
00:25-00:30 HOUR	58.2	54.5
00:30-00:35 HOUR	58.2	54.5
00:35-00:40 HOUR	58.2	54.6
00:40-00:45 HOUR	58.0	54.2
00:45-00:50 HOUR	58.5	54.3
00:50-00:55 HOUR	57.8	54.8
00:55-01:00 HOUR	55.8	54.4
01:00-01:05 HOUR	55.4	54.3
01:05-01:10 HOUR	56.4	54.5
01:10-01:15 HOUR	56.2	54.5
01:15-01:20 HOUR	57.5	54.7
01:20-01:25 HOUR	57.9	54.8
01:25-01:30 HOUR	57.0	54.6
01:30-01:35 HOUR	58.4	54.4
01:35-01:40 HOUR	57.0	54.1
01:40-01:45 HOUR	57.1	54.1
01:45-01:50 HOUR	57.4	54.2
01:50-01:55 HOUR	56.0	54.0
01:55-02:00 HOUR	60.0	54.3
02:00-02:05 HOUR	58.3	54.0
02:05-02:10 HOUR	58.1	54.1
02:10-02:15 HOUR	55.7	54.2
02:15-02:20 HOUR	55.5	54.6
02:20-02:25 HOUR	57.1	54.7
02:25-02:30 HOUR	55.8	54.6
02:30-02:35 HOUR	55.5	54.5
02:35-02:40 HOUR	55.3	54.8
02:40-02:45 HOUR	57.8	55.2
02:45-02:50 HOUR	58.5	56.1
02:50-02:55 HOUR	61.0	56.3
02:55-03:00 HOUR	55.4	54.7

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TIME*	RESULT (KPa)	
	M6 subgrade material strength (bearing capacity) at 100mm	M6 subgrade material strength (bearing capacity) at 100mm
	Low 3 sec	Low 5 sec
03:00-03:05 HOUR	57.7	54.1
03:05-03:10 HOUR	58.3	53.0
03:10-03:15 HOUR	58.3	53.9
03:15-03:20 HOUR	56.6	53.3
03:20-03:25 HOUR	55.0	53.2
03:25-03:30 HOUR	57.3	55.3
03:30-03:35 HOUR	56.5	54.2
03:35-03:40 HOUR	56.7	54.1
03:40-03:45 HOUR	56.3	53.4
03:45-03:50 HOUR	56.0	53.6
03:50-03:55 HOUR	57.1	54.0
03:55-04:00 HOUR	55.0	53.9
04:00-04:05 HOUR	56.2	53.8
04:05-04:10 HOUR	58.2	56.1
04:10-04:15 HOUR	56.9	54.3
04:15-04:20 HOUR	55.4	54.0
04:20-04:25 HOUR	56.8	54.1
04:25-04:30 HOUR	55.8	53.7
04:30-04:35 HOUR	56.3	53.9
04:35-04:40 HOUR	57.7	56.2
04:40-04:45 HOUR	56.1	53.7
04:45-04:50 HOUR	60.8	56.3
04:50-04:55 HOUR	61.0	56.9
04:55-05:00 HOUR	57.9	54.4
05:00-05:05 HOUR	59.6	56.7
05:05-05:10 HOUR	59.7	56.5
05:10-05:15 HOUR	57.2	54.6
05:15-05:20 HOUR	58.3	54.7
05:20-05:25 HOUR	58.8	55.9
05:25-05:30 HOUR	58.5	55.9
05:30-05:35 HOUR	59.1	57.3
05:35-05:40 HOUR	59.8	56.7
05:40-05:45 HOUR	59.2	56.7
05:45-05:50 HOUR	58.3	55.8
05:50-05:55 HOUR	59.2	54.5
05:55-06:00 HOUR	59.0	57.3
06:00-06:05 HOUR	56.8	54.2
06:05-06:10 HOUR	60.8	56.3
06:10-06:15 HOUR	62.0	57.2
06:15-06:20 HOUR	61.3	57.0
06:20-06:25 HOUR	60.7	56.8
06:25-06:30 HOUR	60.4	56.4
06:30-06:35 HOUR	59.4	56.0
06:35-06:40 HOUR	61.8	54.8
06:40-06:45 HOUR	61.1	57.1
06:45-06:50 HOUR	58.9	55.5
06:50-06:55 HOUR	61.1	55.7
06:55-07:00 HOUR	62.6	56.1
07:00-07:05 HOUR	61.0	57.6
07:05-07:10 HOUR	59.2	56.6
07:10-07:15 HOUR	61.9	57.1

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TIME*	RESULT (dB(A))	
	NO. UNPUBLISHED WORKING INSTRUMENTAL DURATION & SAMPLING POINT	
	JUNE 11 - 11, 2024	
	T24M032-0024	
	Leq 3 min	Leq 1 min
07:15-07:20 HOUR	59.5	55.0
07:20-07:25 HOUR	60.5	56.5
07:25-07:30 HOUR	62.5	58.0
07:30-07:35 HOUR	64.5	59.2
07:35-07:40 HOUR	62.4	59.0
07:40-07:45 HOUR	59.9	56.4
07:45-07:50 HOUR	58.6	55.2
07:50-07:55 HOUR	57.1	53.8
07:55-08:00 HOUR	62.4	58.3
08:00-08:05 HOUR	63.2	58.8
08:05-08:10 HOUR	61.3	59.0
08:10-08:15 HOUR	59.0	56.2
08:15-08:20 HOUR	64.1	58.0
08:20-08:25 HOUR	59.0	56.2
08:25-08:30 HOUR	62.7	57.8
08:30-08:35 HOUR	61.1	57.0
08:35-08:40 HOUR	61.7	56.7
08:40-08:45 HOUR	60.8	55.4
08:45-08:50 HOUR	63.6	58.6
08:50-08:55 HOUR	62.6	57.4
08:55-09:00 HOUR	64.0	60.2
09:00-09:05 HOUR	64.3	59.6
09:05-09:10 HOUR	65.0	58.1
09:10-09:15 HOUR	60.9	57.2
09:15-09:20 HOUR	63.8	58.3
09:20-09:25 HOUR	62.4	57.9
09:25-09:30 HOUR	61.6	57.7
09:30-09:35 HOUR	61.6	57.3
09:35-09:40 HOUR	65.2	60.9
09:40-09:45 HOUR	65.1	58.5
09:45-09:50 HOUR	63.9	57.6
09:50-09:55 HOUR	63.9	56.9
09:55-10:00 HOUR	63.0	56.9

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24/20

2024-0055160

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TIME*	RESULT (dB(A))	
	NO. UNPUBLISHED WORKING INSTRUMENTAL DURATION & SAMPLING POINT	
	JUNE 12 - 13, 2024	
	T24M043-0025	
	Leq 3 min	Leq 1 min
10:00-10:05 HOUR	58.7	55.6
10:05-10:10 HOUR	63.2	57.5
10:10-10:15 HOUR	64.3	58.5
10:15-10:20 HOUR	79.7	65.3
10:20-10:25 HOUR	72.2	64.6
10:25-10:30 HOUR	69.0	65.4
10:30-10:35 HOUR	67.3	63.7
10:35-10:40 HOUR	64.4	67.2
10:40-10:45 HOUR	62.4	57.6
10:45-10:50 HOUR	70.0	58.2
10:50-10:55 HOUR	70.2	59.5
10:55-11:00 HOUR	68.2	57.3
11:00-11:05 HOUR	68.8	58.0
11:05-11:10 HOUR	68.1	56.5
11:10-11:15 HOUR	60.5	56.6
11:15-11:20 HOUR	65.1	56.2
11:20-11:25 HOUR	67.5	57.3
11:25-11:30 HOUR	64.4	57.2
11:30-11:35 HOUR	67.8	55.7
11:35-11:40 HOUR	62.5	56.1
11:40-11:45 HOUR	63.1	56.0
11:45-11:50 HOUR	63.1	54.8
11:50-11:55 HOUR	73.1	57.0
11:55-12:00 HOUR	69.8	56.5
12:00-12:05 HOUR	64.4	54.0
12:05-12:10 HOUR	73.0	58.5
12:10-12:15 HOUR	65.3	56.4
12:15-12:20 HOUR	63.6	55.7
12:20-12:25 HOUR	60.2	55.9
12:25-12:30 HOUR	67.4	58.2
12:30-12:35 HOUR	73.1	57.6
12:35-12:40 HOUR	64.0	56.0
12:40-12:45 HOUR	68.7	55.9
12:45-12:50 HOUR	61.7	54.7
12:50-12:55 HOUR	60.1	57.2
12:55-13:00 HOUR	65.4	56.9
13:00-13:05 HOUR	54.9	56.2
13:05-13:10 HOUR	59.6	56.1
13:10-13:15 HOUR	58.6	55.9
13:15-13:20 HOUR	66.9	57.9
13:20-13:25 HOUR	71.3	60.1
13:25-13:30 HOUR	69.6	58.8
13:30-13:35 HOUR	71.5	60.3
13:35-13:40 HOUR	60.7	56.0
13:40-13:45 HOUR	70.5	57.0
13:45-13:50 HOUR	72.5	59.9
13:50-13:55 HOUR	61.9	57.0
13:55-14:00 HOUR	61.8	56.8
14:00-14:05 HOUR	72.8	62.5
14:05-14:10 HOUR	71.4	57.6
14:10-14:15 HOUR	69.0	57.9

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2024-0055160

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TIME*	RESULT (B/A)	
	M6 sulphated emerald fluorescent fluorescent fluorescent	
	JUNE 12 - 13, 2024	
	T34H043-0005	
	Less 3 min	Less 5 min
14:15-14:20 HOUR	67.4	57.6
14:20-14:25 HOUR	72.0	58.4
14:25-14:30 HOUR	70.9	58.5
14:30-14:35 HOUR	61.7	57.5
14:35-14:40 HOUR	62.1	58.1
14:40-14:45 HOUR	69.8	58.7
14:45-14:50 HOUR	71.2	61.6
14:50-14:55 HOUR	67.9	58.8
14:55-15:00 HOUR	62.3	58.1
15:00-15:05 HOUR	64.3	56.9
15:05-15:10 HOUR	55.8	56.2
15:10-15:15 HOUR	62.6	57.6
15:15-15:20 HOUR	66.6	57.0
15:20-15:25 HOUR	62.0	57.8
15:25-15:30 HOUR	60.6	57.2
15:30-15:35 HOUR	62.8	56.1
15:35-15:40 HOUR	55.3	56.8
15:40-15:45 HOUR	58.3	56.3
15:45-15:50 HOUR	66.1	56.1
15:50-15:55 HOUR	67.8	56.1
15:55-16:00 HOUR	68.6	57.3
16:00-16:05 HOUR	65.6	56.7
16:05-16:10 HOUR	66.7	57.4
16:10-16:15 HOUR	67.6	56.8
16:15-16:20 HOUR	66.0	56.0
16:20-16:25 HOUR	67.8	56.1
16:25-16:30 HOUR	65.4	56.7
16:30-16:35 HOUR	69.5	57.8
16:35-16:40 HOUR	64.6	57.3
16:40-16:45 HOUR	67.9	57.0
16:45-16:50 HOUR	65.5	58.1
16:50-16:55 HOUR	62.3	58.2
16:55-17:00 HOUR	60.7	56.2
17:00-17:05 HOUR	60.0	56.8
17:05-17:10 HOUR	61.0	56.8
17:10-17:15 HOUR	60.5	56.7
17:15-17:20 HOUR	60.1	57.0
17:20-17:25 HOUR	63.8	56.9
17:25-17:30 HOUR	69.9	57.6
17:30-17:35 HOUR	62.4	58.2
17:35-17:40 HOUR	62.8	58.1
17:40-17:45 HOUR	62.2	57.6
17:45-17:50 HOUR	62.0	57.0
17:50-17:55 HOUR	62.0	57.2
17:55-18:00 HOUR	61.8	56.5
18:00-18:05 HOUR	61.7	57.9
18:05-18:10 HOUR	61.9	56.7
18:10-18:15 HOUR	62.1	56.9
18:15-18:20 HOUR	61.0	57.7
18:20-18:25 HOUR	62.1	56.7
18:25-18:30 HOUR	59.6	57.7

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2024-00053106

20/30

30 WEIGHTS OFFERED  
 30 MOISTURE OFFERED  
 30 BURNING OFFERED

TIME*	RESULT (B/A)	
	M6 sulphated emerald fluorescent fluorescent fluorescent	
	JUNE 12 - 13, 2024	
	T34H043-0005	
	Less 3 min	Less 5 min
18:30-18:35 HOUR	59.1	56.6
18:35-18:40 HOUR	60.3	56.7
18:40-18:45 HOUR	60.9	58.1
18:45-18:50 HOUR	62.2	56.1
18:50-18:55 HOUR	61.7	57.9
18:55-19:00 HOUR	62.3	56.3
19:00-19:05 HOUR	59.7	57.4
19:05-19:10 HOUR	60.5	57.6
19:10-19:15 HOUR	59.8	57.0
19:15-19:20 HOUR	60.4	57.4
19:20-19:25 HOUR	59.4	56.8
19:25-19:30 HOUR	60.1	57.2
19:30-19:35 HOUR	60.1	57.8
19:35-19:40 HOUR	62.0	57.3
19:40-19:45 HOUR	61.4	57.3
19:45-19:50 HOUR	61.6	57.0
19:50-19:55 HOUR	59.2	56.5
19:55-20:00 HOUR	58.7	56.3
20:00-20:05 HOUR	59.6	56.3
20:05-20:10 HOUR	59.9	56.7
20:10-20:15 HOUR	60.5	56.4
20:15-20:20 HOUR	61.9	57.2
20:20-20:25 HOUR	58.6	56.3
20:25-20:30 HOUR	60.1	56.5
20:30-20:35 HOUR	61.1	56.2
20:35-20:40 HOUR	58.4	56.1
20:40-20:45 HOUR	59.3	56.5
20:45-20:50 HOUR	59.0	55.9
20:50-20:55 HOUR	59.5	55.9
20:55-21:00 HOUR	57.3	55.6
21:00-21:05 HOUR	60.7	56.6
21:05-21:10 HOUR	60.8	56.9
21:10-21:15 HOUR	59.5	55.6
21:15-21:20 HOUR	60.4	56.7
21:20-21:25 HOUR	58.7	56.2
21:25-21:30 HOUR	60.6	57.3
21:30-21:35 HOUR	59.5	56.6
21:35-21:40 HOUR	62.4	57.2
21:40-21:45 HOUR	62.3	56.8
21:45-21:50 HOUR	58.3	56.2
21:50-21:55 HOUR	59.3	56.0
21:55-22:00 HOUR	59.2	56.4
22:00-22:05 HOUR	60.3	56.2
22:05-22:10 HOUR	60.0	56.9
22:10-22:15 HOUR	58.9	56.4
22:15-22:20 HOUR	58.5	55.9
22:20-22:25 HOUR	60.8	56.1
22:25-22:30 HOUR	62.1	56.2
22:30-22:35 HOUR	60.9	56.2
22:35-22:40 HOUR	62.2	55.4
22:40-22:45 HOUR	57.8	55.6

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2024-0005160

20/30

30 WEIGHTS OFFERED  
 30 MOISTURE OFFERED  
 30 BURNING OFFERED

TIME*	RESULT (dBA)	
	NO significant interval fluctuation (Functional)	Functional
	LAeq 1 min	LAeq 1 min
22:45-23:00 HOUR	56.3	56.2
23:00-23:15 HOUR	56.8	56.6
23:15-23:30 HOUR	57.9	56.6
23:30-23:45 HOUR	57.7	56.6
23:45-24:00 HOUR	58.1	56.2
24:00-24:15 HOUR	58.3	55.6
24:15-24:30 HOUR	57.9	55.7
24:30-24:45 HOUR	58.4	55.6
24:45-25:00 HOUR	57.5	55.5
25:00-25:15 HOUR	58.0	55.9
25:15-25:30 HOUR	58.9	55.3
25:30-25:45 HOUR	59.5	55.6
25:45-26:00 HOUR	58.4	55.4
26:00-26:15 HOUR	57.9	55.6
26:15-26:30 HOUR	57.9	55.2
26:30-26:45 HOUR	57.2	55.0
26:45-27:00 HOUR	58.3	55.1
27:00-27:15 HOUR	57.1	55.2
27:15-27:30 HOUR	64.4	55.2
27:30-27:45 HOUR	59.0	55.9
27:45-28:00 HOUR	58.9	55.1
28:00-28:15 HOUR	59.0	54.9
28:15-28:30 HOUR	56.8	54.9
28:30-28:45 HOUR	56.7	54.4
28:45-29:00 HOUR	57.3	55.5
29:00-29:15 HOUR	58.1	55.3
29:15-29:30 HOUR	56.0	55.3
29:30-29:45 HOUR	56.1	55.3
29:45-30:00 HOUR	56.8	55.7
30:00-30:15 HOUR	57.7	56.4
30:15-30:30 HOUR	59.7	56.5
30:30-30:45 HOUR	62.0	56.1
30:45-31:00 HOUR	65.1	55.9
31:00-31:15 HOUR	65.3	55.7
31:15-31:30 HOUR	59.5	56.4
31:30-31:45 HOUR	59.3	56.1
31:45-32:00 HOUR	55.8	56.1
32:00-32:15 HOUR	56.5	56.3
32:15-32:30 HOUR	56.3	56.3
32:30-32:45 HOUR	56.2	56.1
32:45-33:00 HOUR	56.3	55.3
33:00-33:15 HOUR	56.3	54.9
33:15-33:30 HOUR	56.7	54.6
33:30-33:45 HOUR	56.1	55.1
33:45-34:00 HOUR	57.2	55.1
34:00-34:15 HOUR	57.0	55.0
34:15-34:30 HOUR	58.5	54.7
34:30-34:45 HOUR	57.6	54.9

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20/10 2024-0055180

TIME*	RESULT (dBA)	
	NO significant interval fluctuation (Functional)	Functional
	LAeq 1 min	LAeq 1 min
02:00-02:15 HOUR	60.5	54.9
02:15-02:30 HOUR	58.0	54.9
02:30-02:45 HOUR	60.2	54.7
02:45-03:00 HOUR	58.7	54.9
03:00-03:15 HOUR	57.6	54.3
03:15-03:30 HOUR	58.0	54.9
03:30-03:45 HOUR	58.8	54.8
03:45-04:00 HOUR	58.5	54.4
04:00-04:15 HOUR	57.2	54.5
04:15-04:30 HOUR	56.9	54.8
04:30-04:45 HOUR	56.9	54.2
04:45-05:00 HOUR	58.5	54.3
05:00-05:15 HOUR	58.9	54.2
05:15-05:30 HOUR	61.7	54.8
05:30-05:45 HOUR	62.1	54.3
05:45-06:00 HOUR	60.7	55.1
06:00-06:15 HOUR	58.0	54.7
06:15-06:30 HOUR	56.9	54.9
06:30-06:45 HOUR	56.7	54.6
06:45-07:00 HOUR	57.8	54.5
07:00-07:15 HOUR	58.9	54.6
07:15-07:30 HOUR	56.1	54.7
07:30-07:45 HOUR	56.0	54.4
07:45-08:00 HOUR	56.8	54.8
08:00-08:15 HOUR	56.8	54.4
08:15-08:30 HOUR	56.8	54.7
08:30-08:45 HOUR	55.8	54.7
08:45-09:00 HOUR	56.2	54.8
09:00-09:15 HOUR	57.0	54.8
09:15-09:30 HOUR	56.8	54.9
09:30-09:45 HOUR	56.8	54.8
09:45-10:00 HOUR	56.8	54.8
10:00-10:15 HOUR	56.8	54.8
10:15-10:30 HOUR	56.8	54.8
10:30-10:45 HOUR	56.7	54.8
10:45-11:00 HOUR	59.4	55.4
11:00-11:15 HOUR	59.3	55.6
11:15-11:30 HOUR	58.9	55.7
11:30-11:45 HOUR	61.6	55.6
11:45-12:00 HOUR	60.8	56.5
12:00-12:15 HOUR	59.4	56.3
12:15-12:30 HOUR	63.8	57.2
12:30-12:45 HOUR	60.2	55.8
12:45-13:00 HOUR	58.1	55.5
13:00-13:15 HOUR	59.6	56.6
13:15-13:30 HOUR	60.5	56.4
13:30-13:45 HOUR	58.9	56.6
13:45-14:00 HOUR	60.7	56.7
14:00-14:15 HOUR	61.3	57.2
14:15-14:30 HOUR	60.8	56.6
14:30-14:45 HOUR	59.8	56.8
14:45-15:00 HOUR	59.5	56.6
15:00-15:15 HOUR	60.3	56.0
15:15-15:30 HOUR	61.3	57.3

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20/10 2024-0055180

TIME*	RESULT dB(A)			
	SINOPET INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED			
	JUNE 15 - 17, 2024			
	T24ANR06-0001			
TIME*	Long 1 hour	Long 1 hour	Long 1 hour	Long 1 hour
07:00-08:00 HOUR	64.5	64.1	50.2	-
08:00-09:00 HOUR	62.7	61.4	52.0	-
09:00-10:00 HOUR	61.5	61.1	51.5	-
10:00-11:00 HOUR	63.6	66.4	51.7	-
11:00-12:00 HOUR	63.5	66.5	50.8	-
12:00-13:00 HOUR	62.3	63.8	51.5	-
13:00-14:00 HOUR	63.9	69.9	51.1	-
14:00-15:00 HOUR	63.0	83.4	50.8	63.2
15:00-16:00 HOUR	61.8	81.5	51.3	-
16:00-17:00 HOUR	63.5	82.6	51.7	-
17:00-18:00 HOUR	62.4	78.6	52.3	-
18:00-19:00 HOUR	63.0	81.0	52.2	-
19:00-20:00 HOUR	62.7	81.0	51.8	-
20:00-21:00 HOUR	62.4	81.2	51.5	-
21:00-22:00 HOUR	59.2	77.7	50.3	-
22:00-23:00 HOUR	60.6	78.8	50.8	62.1
23:00-00:00 HOUR	62.3	81.5	51.7	-
00:00-01:00 HOUR	61.7	83.4	51.4	-
01:00-02:00 HOUR	61.4	83.9	52.8	-
02:00-03:00 HOUR	58.6	82.4	51.7	-
03:00-04:00 HOUR	66.1	94.2	59.3	-
04:00-05:00 HOUR	64.9	72.3	60.8	-
05:00-06:00 HOUR	65.3	86.4	60.2	-
06:00-07:00 HOUR	53.0	93.4	54.8	63.5
Long 24 hours			63.0	

TIME*	RESULT dB(A)			
	SINOPET INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED			
	JUNE 15 - 17, 2024			
	T24ANR06-0001			
TIME*	Long 1 hour	Long 1 hour	Long 1 hour	Long 1 hour
07:00-08:00 HOUR	65.0	82.9	50.3	-
08:00-09:00 HOUR	63.5	82.3	55.1	-
09:00-10:00 HOUR	61.0	91.0	54.1	-
10:00-11:00 HOUR	65.0	87.3	54.0	-
11:00-12:00 HOUR	64.4	82.5	55.9	-
12:00-13:00 HOUR	61.7	80.5	52.4	-
13:00-14:00 HOUR	64.2	84.7	53.8	-
14:00-15:00 HOUR	63.4	82.4	54.7	61.8
15:00-16:00 HOUR	63.4	82.3	54.5	-
16:00-17:00 HOUR	63.1	84.5	54.6	-
17:00-18:00 HOUR	62.7	82.5	54.3	-
18:00-19:00 HOUR	63.0	79.7	55.2	-
19:00-20:00 HOUR	63.0	81.3	51.0	-
20:00-21:00 HOUR	61.2	87.6	51.7	-
21:00-22:00 HOUR	59.5	78.4	50.9	62.3
22:00-23:00 HOUR	61.4	79.3	53.4	-
23:00-00:00 HOUR	62.7	82.5	50.7	-
00:00-01:00 HOUR	61.1	81.3	49.9	-
01:00-02:00 HOUR	65.2	84.4	50.0	-
02:00-03:00 HOUR	66.4	82.9	49.6	-
03:00-04:00 HOUR	64.0	86.8	49.4	-
04:00-05:00 HOUR	59.1	81.3	50.9	-
05:00-06:00 HOUR	63.6	85.4	52.8	-
06:00-07:00 HOUR	51.6	75.9	50.4	63.6
Long 24 hours			63.3	



TIME*	RESULT dB(A)				
	ข้อมูลการประเมินค่าเสียง 2013 กรุงเทพมหานคร กรุงเทพมหานคร				
	JUNE 17 - 18, 2024				
TIME*	T24ANR06-2023				
	Long 1 hour	Long 2 hour	Long 3 hour	Long 8 hour	Long 24 hour
07:00-08:00 HOUR	64.7	63.4	64.0	-	-
08:00-09:00 HOUR	65.1	61.2	55.0	-	-
09:00-10:00 HOUR	63.1	64.9	55.3	-	-
10:00-11:00 HOUR	64.9	61.0	54.7	-	-
11:00-12:00 HOUR	65.1	63.6	56.5	-	-
12:00-13:00 HOUR	62.5	65.4	52.9	-	-
13:00-14:00 HOUR	62.3	63.3	53.8	-	-
14:00-15:00 HOUR	63.8	62.8	56.2	63.9	-
15:00-16:00 HOUR	64.4	63.7	55.7	-	-
16:00-17:00 HOUR	62.9	62.3	58.5	-	-
17:00-18:00 HOUR	64.2	62.0	58.7	-	-
18:00-19:00 HOUR	63.0	64.3	54.0	-	-
19:00-20:00 HOUR	62.9	61.9	53.3	-	-
20:00-21:00 HOUR	65.9	63.2	61.4	-	-
21:00-22:00 HOUR	64.3	74.8	66.3	-	-
22:00-23:00 HOUR	67.7	78.2	64.7	65.5	-
23:00-00:00 HOUR	64.4	75.2	63.7	-	-
00:00-01:00 HOUR	68.9	74.3	67.1	-	-
01:00-02:00 HOUR	68.9	74.7	67.1	-	-
02:00-03:00 HOUR	67.9	76.1	64.9	-	-
03:00-04:00 HOUR	65.4	76.8	62.7	-	-
04:00-05:00 HOUR	68.3	74.7	66.4	-	-
05:00-06:00 HOUR	64.9	85.4	54.0	-	-
06:00-07:00 HOUR	63.6	82.6	53.3	67.1	-
Long 24 hours					65.7

TIME*	RESULT dB(A)				
	ข้อมูลการประเมินค่าเสียง 2013 กรุงเทพมหานคร กรุงเทพมหานคร				
	JUNE 18 - 19, 2024				
TIME*	T24ANR06-0004				
	Long 1 hour	Long 2 hour	Long 3 hour	Long 8 hour	Long 24 hour
07:00-08:00 HOUR	65.0	62.0	64.0	-	-
08:00-09:00 HOUR	63.8	107.4	54.0	-	-
09:00-10:00 HOUR	65.5	80.2	53.7	-	-
10:00-11:00 HOUR	64.0	69.0	53.9	-	-
11:00-12:00 HOUR	63.5	64.7	53.8	-	-
12:00-13:00 HOUR	62.4	62.2	52.2	-	-
13:00-14:00 HOUR	63.7	62.1	54.3	-	-
14:00-15:00 HOUR	63.4	60.8	54.0	63.8	-
15:00-16:00 HOUR	63.8	62.9	55.2	-	-
16:00-17:00 HOUR	63.4	63.6	55.2	-	-
17:00-18:00 HOUR	64.2	63.5	54.9	-	-
18:00-19:00 HOUR	64.3	64.8	52.8	-	-
19:00-20:00 HOUR	63.2	60.8	52.5	-	-
20:00-21:00 HOUR	62.7	66.1	52.4	-	-
21:00-22:00 HOUR	61.9	61.9	52.8	-	-
22:00-23:00 HOUR	62.3	60.0	52.1	63.3	-
23:00-00:00 HOUR	62.0	62.0	52.4	-	-
00:00-01:00 HOUR	63.5	60.9	53.4	-	-
01:00-02:00 HOUR	66.4	66.1	63.1	-	-
02:00-03:00 HOUR	69.0	62.6	60.7	-	-
03:00-04:00 HOUR	67.6	78.2	54.3	-	-
04:00-05:00 HOUR	65.9	76.9	52.1	-	-
05:00-06:00 HOUR	63.6	66.7	54.2	-	-
06:00-07:00 HOUR	63.6	78.0	53.4	64.5	66.8
Long 24 hours					64.5

RESULT (dB(A))				
T24H0005-0005				
TIME*	Long 1 hour	Long 1 hour	Long 1 hour	Long 1 hour
07:00-08:00 HOUR	64.8	61.1	53.8	-
08:00-09:00 HOUR	64.3	79.0	55.1	-
09:00-10:00 HOUR	62.8	61.6	61.4	-
10:00-11:00 HOUR	63.8	64.7	55.8	-
11:00-12:00 HOUR	64.8	62.6	55.2	-
12:00-13:00 HOUR	62.8	61.4	53.9	-
13:00-14:00 HOUR	65.3	61.5	59.2	-
14:00-15:00 HOUR	65.6	62.5	58.7	64.3
15:00-16:00 HOUR	64.6	61.9	58.2	-
16:00-17:00 HOUR	64.8	62.6	59.5	-
17:00-18:00 HOUR	64.1	63.5	55.9	-
18:00-19:00 HOUR	63.2	66.6	53.9	-
19:00-20:00 HOUR	62.8	62.0	52.7	-
20:00-21:00 HOUR	61.5	66.0	52.9	-
21:00-22:00 HOUR	62.9	66.2	52.5	-
22:00-23:00 HOUR	63.8	64.2	64.1	63.8
23:00-00:00 HOUR	64.5	63.2	64.5	-
00:00-01:00 HOUR	64.3	60.9	53.8	-
01:00-02:00 HOUR	65.4	62.5	52.0	-
02:00-03:00 HOUR	66.6	62.4	58.5	-
03:00-04:00 HOUR	66.2	60.6	46.7	-
04:00-05:00 HOUR	62.9	62.4	46.6	-
05:00-06:00 HOUR	62.0	61.7	52.4	-
06:00-07:00 HOUR	63.8	60.3	52.4	65.1
Long 24 hours				64.4

*Signature*  
 [MR. STA. BANZONGJIRUK]  
 LABORATORY SUPERVISOR

**ANALYSIS REPORT**  
 PROJECT NAME : BANGKOK POWER PLANT TRANSMISSION (PILGRIM) IN CONSTRUCTION PHASE  
 CUSTOMER NAME : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
 ADDRESS : 555 BANGKOK 11TH FLOOR, 501 PHANOMYOTIN 19 PHANOMYOTIN ROAD, CHULACHOLAK CANTONMENT, BANGKOK 10100  
 CONTACT INFORMATION : TEL : 094-343 6707 E-mail : info@unitedanalyst.com  
 MEASURING SOURCE : 156/14 Rama 61, Sukhumvit Road, Bangkok, Thailand 10110  
 MEASURING TYPE : AMBIENT (NOISE)  
 MEASURING DATE : JUNE 15-20, 2024  
 MEASURING TIME : \*  
 MEASURING METHOD : INTEGRATED SOUND LEVEL METER  
 MEASURED BY : MR. THAWAT LERTMAHASEET  
 WORK NO. : T24H0005-0007  
 ANALYSIS NO. : T24H0005-0005  
 RECEIVED DATE : JUNE 15-20, 2024  
 ANALYTICAL DATE : JUNE 15-20, 2024  
 ISSUE DATE : JUNE 25, 2024  
 REPORT NO. : T24H0005-0005

RESULT (dB(A))				
T24H0005-0005				
TIME*	Long 1 hour	Long 1 hour	Long 1 hour	Long 1 hour
07:00-08:00 HOUR	64.7	61.1	50.1	-
08:00-09:00 HOUR	67.3	63.7	51.0	-
09:00-10:00 HOUR	68.5	64.4	51.9	-
10:00-11:00 HOUR	60.2	60.2	51.6	-
11:00-12:00 HOUR	63.8	60.4	52.3	-
12:00-13:00 HOUR	61.4	61.4	52.7	-
13:00-14:00 HOUR	60.3	60.3	50.8	-
14:00-15:00 HOUR	60.4	60.4	52.1	-
15:00-16:00 HOUR	61.6	61.6	55.0	-
16:00-17:00 HOUR	61.2	61.2	55.1	-
17:00-18:00 HOUR	64.7	64.7	56.8	-
18:00-19:00 HOUR	62.7	62.7	51.0	-
19:00-20:00 HOUR	64.8	64.8	52.5	-
20:00-21:00 HOUR	64.5	64.5	55.8	-
21:00-22:00 HOUR	64.3	64.3	54.1	-
22:00-23:00 HOUR	61.8	61.8	54.0	-
23:00-00:00 HOUR	62.8	62.8	54.4	-
00:00-01:00 HOUR	63.9	63.9	58.4	-
01:00-02:00 HOUR	64.7	64.7	56.4	-
02:00-03:00 HOUR	62.8	62.8	56.5	-
03:00-04:00 HOUR	64.5	64.5	56.6	-
04:00-05:00 HOUR	60.7	60.7	52.5	-
05:00-06:00 HOUR	61.0	61.0	53.0	-
06:00-07:00 HOUR	63.0	63.0	52.5	-
07:00-08:00 HOUR	62.8	62.8	54.0	-
08:00-09:00 HOUR	59.5	59.5	55.2	-
09:00-10:00 HOUR	57.7	57.7	54.6	-
10:00-11:00 HOUR	66.3	66.3	54.0	-
11:00-12:00 HOUR	59.5	59.5	54.5	-
12:00-13:00 HOUR	62.1	62.1	53.1	-
13:00-14:00 HOUR	65.4	65.4	54.2	-

TIME*	RESULT dB(A)	
	ultraquiet sound level 28/11 hours under running and performance	
	Long 8 min	Long 2 min
10:00-10:05 HOUR	60.2	53.9
10:05-10:10 HOUR	65.5	54.3
10:10-10:15 HOUR	66.3	53.1
10:15-10:20 HOUR	63.2	53.8
10:20-10:25 HOUR	58.9	53.1
10:25-10:30 HOUR	68.2	55.8
10:30-10:35 HOUR	59.9	54.0
10:35-10:40 HOUR	67.9	55.5
10:40-10:45 HOUR	62.1	53.7
10:45-10:50 HOUR	64.4	52.9
10:50-10:55 HOUR	61.7	54.1
10:55-11:00 HOUR	66.4	58.0
11:00-11:05 HOUR	66.5	58.4
11:05-11:10 HOUR	59.3	55.0
11:10-11:15 HOUR	61.8	56.6
11:15-11:20 HOUR	67.2	54.5
11:20-11:25 HOUR	65.9	56.4
11:25-11:30 HOUR	56.9	51.8
11:30-11:35 HOUR	66.5	55.9
11:35-11:40 HOUR	63.4	54.1
11:40-11:45 HOUR	64.2	53.5
11:45-11:50 HOUR	65.8	53.7
11:50-11:55 HOUR	62.4	54.5
11:55-12:00 HOUR	63.0	56.5
12:00-12:05 HOUR	64.3	57.1
12:05-12:10 HOUR	64.0	52.9
12:10-12:15 HOUR	55.3	50.5
12:15-12:20 HOUR	60.3	52.6
12:20-12:25 HOUR	62.7	51.7
12:25-12:30 HOUR	61.1	52.1
12:30-12:35 HOUR	59.1	51.7
12:35-12:40 HOUR	62.9	53.5
12:40-12:45 HOUR	63.4	54.0
12:45-12:50 HOUR	59.6	52.5
12:50-12:55 HOUR	60.2	51.8
12:55-13:00 HOUR	60.2	52.7
13:00-13:05 HOUR	61.1	53.2
13:05-13:10 HOUR	55.2	55.7
13:10-13:15 HOUR	67.1	55.8
13:15-13:20 HOUR	62.1	53.7
13:20-13:25 HOUR	62.4	53.5
13:25-13:30 HOUR	64.4	53.8
13:30-13:35 HOUR	62.7	55.9
13:35-13:40 HOUR	69.2	55.2
13:40-13:45 HOUR	62.0	55.5
13:45-13:50 HOUR	59.2	51.6
13:50-13:55 HOUR	62.5	56.0
13:55-14:00 HOUR	60.0	51.8
14:00-14:05 HOUR	59.8	53.2
14:05-14:10 HOUR	63.0	54.7
14:10-14:15 HOUR	67.8	52.8

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2024-0505652

TIME*	RESULT dB(A)	
	ultraquiet sound level 28/11 hours under running and performance	
	Long 8 min	Long 2 min
14:15-14:20 HOUR	63.0	54.7
14:20-14:25 HOUR	61.8	55.4
14:25-14:30 HOUR	65.8	55.6
14:30-14:35 HOUR	66.6	54.8
14:35-14:40 HOUR	63.7	55.1
14:40-14:45 HOUR	63.0	57.5
14:45-14:50 HOUR	65.2	53.3
14:50-14:55 HOUR	65.8	58.0
14:55-15:00 HOUR	57.8	53.7
15:00-15:05 HOUR	66.7	54.7
15:05-15:10 HOUR	58.0	53.4
15:10-15:15 HOUR	61.8	53.6
15:15-15:20 HOUR	66.9	55.5
15:20-15:25 HOUR	62.4	55.2
15:25-15:30 HOUR	59.1	53.9
15:30-15:35 HOUR	63.1	54.2
15:35-15:40 HOUR	64.6	55.9
15:40-15:45 HOUR	60.3	55.3
15:45-15:50 HOUR	61.6	55.4
15:50-15:55 HOUR	59.6	53.9
15:55-16:00 HOUR	64.2	54.3
16:00-16:05 HOUR	65.4	64.6
16:05-16:10 HOUR	65.4	64.6
16:10-16:15 HOUR	60.1	53.4
16:15-16:20 HOUR	60.0	55.1
16:20-16:25 HOUR	55.2	54.7
16:25-16:30 HOUR	67.2	55.4
16:30-16:35 HOUR	63.7	54.6
16:35-16:40 HOUR	62.1	54.7
16:40-16:45 HOUR	60.1	54.5
16:45-16:50 HOUR	60.7	54.2
16:50-16:55 HOUR	59.7	54.5
16:55-17:00 HOUR	59.5	53.7
17:00-17:05 HOUR	66.2	54.2
17:05-17:10 HOUR	63.5	53.4
17:10-17:15 HOUR	60.0	54.4
17:15-17:20 HOUR	60.0	54.0
17:20-17:25 HOUR	60.2	54.5
17:25-17:30 HOUR	63.4	54.5
17:30-17:35 HOUR	58.4	52.2
17:35-17:40 HOUR	59.4	52.3
17:40-17:45 HOUR	63.8	53.2
17:45-17:50 HOUR	65.3	56.9
17:50-17:55 HOUR	63.2	52.9
17:55-18:00 HOUR	60.5	53.3
18:00-18:05 HOUR	64.4	52.5
18:05-18:10 HOUR	60.2	54.2
18:10-18:15 HOUR	64.7	54.7
18:15-18:20 HOUR	67.3	52.6
18:20-18:25 HOUR	60.8	53.7
18:25-18:30 HOUR	60.5	54.5

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2024-0505652



TIME*		RESULT dB(A)	
		OFFICE/WORK/STUDY 25/1 PRIORITY: EXISTENTIAL ENVIRONMENTAL	
		JUNE 11 - 11, 2024	
		T744ND06-0031	
	Long 5 min	Long 5 min	Long 5 min
18:10-18:15 HOUR	59.7		53.5
18:15-18:40 HOUR	62.2		55.4
18:40-18:45 HOUR	62.3		52.8
18:45-18:50 HOUR	59.8		52.2
18:50-18:55 HOUR	57.2		58.6
18:55-19:00 HOUR	65.5		53.7
19:00-19:05 HOUR	66.3		58.5
19:05-19:10 HOUR	61.7		52.0
19:10-19:15 HOUR	63.1		59.3
19:15-19:20 HOUR	57.8		59.6
19:20-19:25 HOUR	60.7		52.5
19:25-19:30 HOUR	64.8		54.1
19:30-19:35 HOUR	67.8		48.3
19:35-19:40 HOUR	58.4		52.3
19:40-19:45 HOUR	60.0		51.4
19:45-19:50 HOUR	60.4		53.8
19:50-19:55 HOUR	62.1		52.3
19:55-20:00 HOUR	60.3		58.4
20:00-20:05 HOUR	56.8		52.6
20:05-20:10 HOUR	60.6		53.8
20:10-20:15 HOUR	62.1		52.3
20:15-20:20 HOUR	63.9		52.4
20:20-20:25 HOUR	59.1		52.1
20:25-20:30 HOUR	64.2		52.7
20:30-20:35 HOUR	62.2		53.3
20:35-20:40 HOUR	60.4		51.2
20:40-20:45 HOUR	59.8		53.3
20:45-20:50 HOUR	59.8		51.5
20:50-20:55 HOUR	61.0		54.1
20:55-21:00 HOUR	61.1		51.3
21:00-21:05 HOUR	55.9		56.5
21:05-21:10 HOUR	59.0		51.0
21:10-21:15 HOUR	60.5		56.4
21:15-21:20 HOUR	57.0		50.8
21:20-21:25 HOUR	60.4		51.9
21:25-21:30 HOUR	57.4		51.2
21:30-21:35 HOUR	54.8		59.7
21:35-21:40 HOUR	57.8		50.8
21:40-21:45 HOUR	59.3		59.9
21:45-21:50 HOUR	59.4		56.0
21:50-21:55 HOUR	60.8		51.3
21:55-22:00 HOUR	63.9		54.0
22:00-22:05 HOUR	60.9		54.9
22:05-22:10 HOUR	63.7		54.4
22:10-22:15 HOUR	55.5		51.7
22:15-22:20 HOUR	63.0		53.5
22:20-22:25 HOUR	56.9		51.2
22:25-22:30 HOUR	62.1		53.8
22:30-22:35 HOUR	55.5		53.0
22:35-22:40 HOUR	63.8		51.7
22:40-22:45 HOUR	65.4		51.9

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0034-0256/82

TIME*	RESULT ๑๕(1)	
	วันที่ทดสอบ: ๒๐/1 ธันวาคม ๒๕๖๖ เวลา: ๐๖.๐๐ น.	
DATE 13 - 16 2024		TIME
TJAM006-0001		
Line 3mm		Line 5mm
22:45-22:50 HOUR	0.17	514
22:50-22:55 HOUR	58.5	52.1
22:55-23:00 HOUR	58.1	51.8
23:00-23:05 HOUR	0.18	62.3
23:05-23:10 HOUR	0.30	52.1
23:10-23:15 HOUR	0.17	50.9
23:15-23:20 HOUR	0.33	50.7
23:20-23:25 HOUR	0.21	51.6
23:25-23:30 HOUR	0.11	50.7
23:30-23:35 HOUR	0.31	49.2
23:35-23:40 HOUR	0.28	48.3
23:40-23:45 HOUR	0.59	48.9
23:45-23:50 HOUR	04.5	48.3
23:50-23:55 HOUR	06.8	48.4
23:55-00:00 HOUR	04.3	50.7
00:00-00:05 HOUR	00.8	44.9
00:05-00:10 HOUR	01.0	50.6
00:10-00:15 HOUR	04.4	50.3
00:15-00:20 HOUR	01.6	45.9
00:20-00:25 HOUR	02.8	50.4
00:25-00:30 HOUR	56.5	40.9
00:30-00:35 HOUR	55.9	48.5
00:35-00:40 HOUR	03.6	50.7
00:40-00:45 HOUR	00.0	49.7
00:45-00:50 HOUR	02.3	49.2
00:50-00:55 HOUR	04.9	48.0
00:55-01:00 HOUR	50.0	48.3
01:00-01:05 HOUR	00.6	48.5
01:05-01:10 HOUR	06.0	48.8
01:10-01:15 HOUR	53.9	50.3
01:15-01:20 HOUR	32.4	46.6
01:20-01:25 HOUR	08.1	50.2
01:25-01:30 HOUR	52.1	46.8
01:30-01:35 HOUR	06.2	49.5
01:35-01:40 HOUR	08.0	50.7
01:40-01:45 HOUR	65.4	50.1
01:45-01:50 HOUR	60.3	49.6
01:50-01:55 HOUR	66.4	50.6
01:55-02:00 HOUR	65.5	50.2
02:00-02:05 HOUR	65.1	49.6
02:05-02:10 HOUR	06.8	48.1
02:10-02:15 HOUR	30.5	49.4
02:15-02:20 HOUR	06.3	50.0
02:20-02:25 HOUR	62.9	49.4
02:25-02:30 HOUR	69.3	49.3
02:30-02:35 HOUR	08.4	49.8
02:35-02:40 HOUR	08.8	51.7
02:40-02:45 HOUR	08.1	50.3
02:45-02:50 HOUR	51.3	49.6
02:50-02:55 HOUR	65.8	49.3
02:55-03:00 HOUR	45.2	49.2

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[illegible]

TIME*	RESULT (H/A)	
	ultraquantumseries 26/1 ultra-quantum series 26/1	
	Long term	Long term
03:00-03:05 HOUR	65.3	60.3
03:05-03:10 HOUR	64.2	59.3
03:10-03:15 HOUR	67.1	60.9
03:15-03:20 HOUR	67.4	59.4
03:20-03:25 HOUR	67.0	59.3
03:25-03:30 HOUR	64.1	48.4
03:30-03:35 HOUR	49.9	48.4
03:35-03:40 HOUR	52.5	48.8
03:40-03:45 HOUR	66.2	49.5
03:45-03:50 HOUR	50.2	48.9
03:50-03:55 HOUR	50.8	48.8
03:55-04:00 HOUR	51.3	49.4
04:00-04:05 HOUR	52.0	50.0
04:05-04:10 HOUR	52.0	50.0
04:10-04:15 HOUR	52.7	50.9
04:15-04:20 HOUR	66.5	52.3
04:20-04:25 HOUR	50.8	51.1
04:25-04:30 HOUR	56.2	52.5
04:30-04:35 HOUR	66.1	51.6
04:35-04:40 HOUR	53.1	51.8
04:40-04:45 HOUR	53.2	50.3
04:45-04:50 HOUR	61.6	50.3
04:50-04:55 HOUR	53.6	50.8
04:55-05:00 HOUR	52.8	50.6
05:00-05:05 HOUR	54.9	51.1
05:05-05:10 HOUR	57.4	51.3
05:10-05:15 HOUR	54.3	51.6
05:15-05:20 HOUR	59.8	52.5
05:20-05:25 HOUR	64.9	52.9
05:25-05:30 HOUR	52.8	53.1
05:30-05:35 HOUR	64.0	52.7
05:35-05:40 HOUR	63.9	53.9
05:40-05:45 HOUR	60.6	53.3
05:45-05:50 HOUR	62.0	53.9
05:50-05:55 HOUR	66.8	53.0
05:55-06:00 HOUR	68.9	52.6
06:00-06:05 HOUR	64.5	53.8
06:05-06:10 HOUR	57.7	51.8
06:10-06:15 HOUR	66.1	51.6
06:15-06:20 HOUR	56.3	58.0
06:20-06:25 HOUR	59.3	56.5
06:25-06:30 HOUR	54.8	48.9
06:30-06:35 HOUR	59.6	58.9
06:35-06:40 HOUR	66.4	52.0
06:40-06:45 HOUR	64.1	48.7
06:45-06:50 HOUR	60.0	54.2
06:50-06:55 HOUR	60.2	48.5
06:55-07:00 HOUR	57.1	48.3

TIME*	RESULT (H/A)	
	ultraquantumseries 26/1 ultra-quantum series 26/1	
	Long term	Long term
07:00-07:05 HOUR	63.6	48.0
07:05-07:10 HOUR	59.3	58.0
07:10-07:15 HOUR	60.9	58.9
07:15-07:20 HOUR	66.9	51.6
07:20-07:25 HOUR	67.2	51.6
07:25-07:30 HOUR	65.3	50.3
07:30-07:35 HOUR	56.7	48.5
07:35-07:40 HOUR	60.4	50.2
07:40-07:45 HOUR	59.2	50.2
07:45-07:50 HOUR	68.8	54.9
07:50-07:55 HOUR	64.7	50.1
07:55-08:00 HOUR	59.1	48.8
08:00-08:05 HOUR	58.3	46.5
08:05-08:10 HOUR	60.3	50.0
08:10-08:15 HOUR	63.9	51.9
08:15-08:20 HOUR	65.2	50.3
08:20-08:25 HOUR	61.0	52.4
08:25-08:30 HOUR	61.7	52.9
08:30-08:35 HOUR	62.7	53.4
08:35-08:40 HOUR	62.1	51.3
08:40-08:45 HOUR	64.1	51.8
08:45-08:50 HOUR	60.3	51.1
08:50-08:55 HOUR	63.3	52.1
08:55-09:00 HOUR	64.3	53.4
09:00-09:05 HOUR	66.4	53.3
09:05-09:10 HOUR	59.7	50.7
09:10-09:15 HOUR	58.7	49.0
09:15-09:20 HOUR	59.3	48.8
09:20-09:25 HOUR	60.3	52.0
09:25-09:30 HOUR	62.4	51.8
09:30-09:35 HOUR	62.3	50.4
09:35-09:40 HOUR	58.6	51.1
09:40-09:45 HOUR	59.8	50.8
09:45-09:50 HOUR	59.7	50.7
09:50-09:55 HOUR	61.5	51.9
09:55-10:00 HOUR	59.2	52.5
10:00-10:05 HOUR	65.3	52.0
10:05-10:10 HOUR	64.3	50.3
10:10-10:15 HOUR	62.8	54.8
10:15-10:20 HOUR	61.0	52.2
10:20-10:25 HOUR	59.8	51.0
10:25-10:30 HOUR	64.2	50.7
10:30-10:35 HOUR	63.9	51.4
10:35-10:40 HOUR	68.5	53.8
10:40-10:45 HOUR	62.8	51.5
10:45-10:50 HOUR	61.3	51.9
10:50-10:55 HOUR	58.1	50.1
10:55-11:00 HOUR	62.8	50.8
11:00-11:05 HOUR	60.3	51.8
11:05-11:10 HOUR	62.4	51.3
11:10-11:15 HOUR	63.8	50.6

TIME*	RESULT (dB(A))	
	ULTRASONIC SURVEILLANCE 2071	ULTRASONIC SURVEILLANCE 2072
	Long 3 min	Long 3 min
11:05-11:20 HOUR	58.9	49.0
11:20-11:35 HOUR	64.6	50.9
11:35-11:50 HOUR	62.3	55.3
11:50-12:05 HOUR	67.1	50.7
12:05-12:20 HOUR	64.5	50.0
12:20-12:35 HOUR	63.9	50.7
12:35-12:50 HOUR	63.4	48.4
12:50-13:05 HOUR	63.5	50.8
13:05-13:20 HOUR	61.1	51.8
13:20-13:35 HOUR	60.7	50.9
13:35-13:50 HOUR	61.3	50.5
13:50-14:05 HOUR	59.0	51.5
14:05-14:20 HOUR	60.8	50.2
14:20-14:35 HOUR	60.7	54.2
14:35-14:50 HOUR	64.6	52.2
14:50-15:05 HOUR	57.6	50.3
15:05-15:20 HOUR	62.7	51.2
15:20-15:35 HOUR	59.4	51.4
15:35-15:50 HOUR	62.7	49.9
15:50-16:05 HOUR	59.7	52.5
16:05-16:20 HOUR	60.2	51.5
16:20-16:35 HOUR	61.8	50.1
16:35-16:50 HOUR	61.0	51.4
16:50-17:05 HOUR	66.9	53.4
17:05-17:20 HOUR	66.2	51.1
17:20-17:35 HOUR	57.2	48.6
17:35-17:50 HOUR	57.8	51.0
17:50-18:05 HOUR	68.2	49.9
18:05-18:20 HOUR	59.0	51.5
18:20-18:35 HOUR	59.2	51.0
18:35-18:50 HOUR	62.2	51.5
18:50-19:05 HOUR	57.2	50.0
19:05-19:20 HOUR	64.2	53.0
19:20-19:35 HOUR	63.0	51.2
19:35-19:50 HOUR	59.1	51.0
19:50-20:05 HOUR	61.7	49.7
20:05-20:20 HOUR	60.4	51.2
20:20-20:35 HOUR	58.9	50.0
20:35-20:50 HOUR	57.6	49.0
20:50-21:05 HOUR	57.8	49.0
21:05-21:20 HOUR	65.5	50.5
21:20-21:35 HOUR	54.0	48.1
21:35-21:50 HOUR	65.6	53.7
21:50-22:05 HOUR	66.7	52.9
22:05-22:20 HOUR	61.0	50.8
22:20-22:35 HOUR	57.3	49.4
22:35-22:50 HOUR	56.1	50.9
22:50-23:05 HOUR	63.1	52.3
23:05-23:20 HOUR	57.7	50.6
23:20-23:35 HOUR	65.4	52.9

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TIME*	RESULT (dB(A))	
	ULTRASONIC SURVEILLANCE 2071	ULTRASONIC SURVEILLANCE 2072
	Long 3 min	Long 3 min
15:30-15:45 HOUR	59.9	56.5
15:45-16:00 HOUR	61.9	56.7
16:00-16:15 HOUR	66.8	62.3
16:15-16:30 HOUR	61.7	51.6
16:30-16:45 HOUR	60.4	51.2
16:45-16:59 HOUR	60.1	51.3
17:00-17:15 HOUR	63.6	50.7
17:15-17:30 HOUR	67.1	51.9
17:30-17:45 HOUR	64.6	54.5
17:45-18:00 HOUR	65.6	52.4
18:00-18:15 HOUR	67.4	51.8
18:15-18:30 HOUR	57.8	51.0
18:30-18:45 HOUR	58.4	50.6
18:45-19:00 HOUR	61.3	52.6
19:00-19:15 HOUR	64.3	50.1
19:15-19:30 HOUR	60.1	50.7
19:30-19:45 HOUR	57.8	51.2
19:45-20:00 HOUR	59.3	50.9
20:00-20:15 HOUR	57.0	51.4
20:15-20:30 HOUR	56.3	51.8
20:30-20:45 HOUR	59.9	51.5
20:45-21:00 HOUR	60.3	50.7
21:00-21:15 HOUR	61.2	52.9
21:15-21:30 HOUR	62.9	53.6
21:30-21:45 HOUR	60.0	50.0
21:45-22:00 HOUR	63.6	50.0
22:00-22:15 HOUR	65.7	53.5
22:15-22:30 HOUR	64.8	52.5
22:30-22:45 HOUR	62.1	50.0
22:45-23:00 HOUR	64.2	51.9
23:00-23:15 HOUR	66.3	51.7
23:15-23:30 HOUR	59.0	52.0
23:30-23:45 HOUR	58.3	52.0
23:45-24:00 HOUR	65.9	54.3
24:00-24:15 HOUR	66.4	55.3
24:15-24:30 HOUR	60.5	51.5
24:30-24:45 HOUR	59.6	50.1
24:45-25:00 HOUR	61.1	52.3
25:00-25:15 HOUR	59.2	50.4
25:15-25:30 HOUR	65.3	63.0
25:30-25:45 HOUR	62.9	52.4
25:45-26:00 HOUR	58.2	50.3
26:00-26:15 HOUR	65.3	51.1
26:15-26:30 HOUR	64.3	51.7
26:30-26:45 HOUR	61.5	50.7
26:45-27:00 HOUR	64.3	51.7
27:00-27:15 HOUR	59.8	52.2
27:15-27:30 HOUR	65.7	50.7
27:30-27:45 HOUR	61.7	54.1
27:45-28:00 HOUR	60.3	51.9
28:00-28:15 HOUR	60.0	51.9

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\* THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



TIME*	RESULT (KVA)	
	Load 1 min	Load 3 min
19:45-19:50 HOUR	62.5	51.7
19:50-19:55 HOUR	61.0	51.9
19:55-20:00 HOUR	61.7	50.5
20:00-20:05 HOUR	62.4	50.4
20:05-20:10 HOUR	66.2	52.6
20:10-20:15 HOUR	59.5	52.0
20:15-20:20 HOUR	62.6	52.7
20:20-20:25 HOUR	63.4	53.3
20:25-20:30 HOUR	65.0	52.4
20:30-20:35 HOUR	59.0	49.9
20:35-20:40 HOUR	57.0	50.9
20:40-20:45 HOUR	57.6	50.4
20:45-20:50 HOUR	62.2	51.1
20:50-20:55 HOUR	60.8	50.2
20:55-21:00 HOUR	57.6	49.8
21:00-21:05 HOUR	58.2	50.6
21:05-21:10 HOUR	56.2	49.8
21:10-21:15 HOUR	59.4	49.7
21:15-21:20 HOUR	57.6	50.7
21:20-21:25 HOUR	58.3	50.4
21:25-21:30 HOUR	60.3	50.9
21:30-21:35 HOUR	55.1	49.7
21:35-21:40 HOUR	60.2	50.3
21:40-21:45 HOUR	54.9	49.8
21:45-21:50 HOUR	58.9	50.9
21:50-21:55 HOUR	63.1	50.7
21:55-22:00 HOUR	60.7	49.9
22:00-22:05 HOUR	64.2	50.3
22:05-22:10 HOUR	54.2	48.8
22:10-22:15 HOUR	63.0	49.2
22:15-22:20 HOUR	54.2	49.3
22:20-22:25 HOUR	55.4	49.3
22:25-22:30 HOUR	59.1	48.7
22:30-22:35 HOUR	60.8	49.7
22:35-22:40 HOUR	61.5	50.1
22:40-22:45 HOUR	58.6	50.3
22:45-22:50 HOUR	55.3	51.7
22:50-22:55 HOUR	60.3	50.5
22:55-23:00 HOUR	61.8	51.9
23:00-23:05 HOUR	66.2	51.9
23:05-23:10 HOUR	59.9	50.8
23:10-23:15 HOUR	61.6	53.3
23:15-23:20 HOUR	61.3	52.7
23:20-23:25 HOUR	61.2	52.5
23:25-23:30 HOUR	66.8	52.2
23:30-23:35 HOUR	53.8	49.4
23:35-23:40 HOUR	62.6	50.4
23:40-23:45 HOUR	58.2	52.1
23:45-23:50 HOUR	54.2	51.7
23:50-23:55 HOUR	64.2	51.2
23:55-00:00 HOUR	58.1	51.5

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10/10

2024-06/04/23

TIME*	RESULT (KVA)	
	Load 1 min	Load 3 min
00:00-00:05 HOUR	57.5	52.6
00:05-00:10 HOUR	57.7	52.6
00:10-00:15 HOUR	67.9	52.5
00:15-00:20 HOUR	60.8	53.7
00:20-00:25 HOUR	53.8	58.4
00:25-00:30 HOUR	62.4	52.0
00:30-00:35 HOUR	64.0	51.4
00:35-00:40 HOUR	53.6	56.8
00:40-00:45 HOUR	60.2	51.7
00:45-00:50 HOUR	60.9	51.3
00:50-00:55 HOUR	60.3	49.3
00:55-01:00 HOUR	50.1	48.0
01:00-01:05 HOUR	52.8	48.6
01:05-01:10 HOUR	61.4	51.3
01:10-01:15 HOUR	64.1	48.8
01:15-01:20 HOUR	57.5	52.1
01:20-01:25 HOUR	65.7	51.8
01:25-01:30 HOUR	55.9	52.0
01:30-01:35 HOUR	55.2	51.9
01:35-01:40 HOUR	66.4	51.6
01:40-01:45 HOUR	61.9	52.0
01:45-01:50 HOUR	58.3	50.1
01:50-01:55 HOUR	58.7	52.2
01:55-02:00 HOUR	55.6	53.4
02:00-02:05 HOUR	55.5	50.9
02:05-02:10 HOUR	62.3	51.9
02:10-02:15 HOUR	58.9	51.2
02:15-02:20 HOUR	59.6	52.9
02:20-02:25 HOUR	58.7	53.5
02:25-02:30 HOUR	56.6	48.0
02:30-02:35 HOUR	57.3	50.7
02:35-02:40 HOUR	58.4	50.5
02:40-02:45 HOUR	58.6	50.6
02:45-02:50 HOUR	56.8	51.4
02:50-02:55 HOUR	59.6	53.0
02:55-03:00 HOUR	59.4	52.0
03:00-03:05 HOUR	57.6	52.6
03:05-03:10 HOUR	60.3	52.5
03:10-03:15 HOUR	60.8	54.4
03:15-03:20 HOUR	63.3	56.6
03:20-03:25 HOUR	60.0	56.8
03:25-03:30 HOUR	61.7	58.5
03:30-03:35 HOUR	61.8	56.4
03:35-03:40 HOUR	68.6	65.0
03:40-03:45 HOUR	69.6	68.2
03:45-03:50 HOUR	69.7	68.2
03:50-03:55 HOUR	69.0	66.2
03:55-04:00 HOUR	66.4	62.7
04:00-04:05 HOUR	62.3	59.0
04:05-04:10 HOUR	62.2	57.1
04:10-04:15 HOUR	63.4	57.8

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10/10

2024-06/06/23

RESULT dB(A)		
Uji Kebisingan di Lokasi Pengukuran		
JUNE 16 - 17, 2024		
TJAB-8006-0002		
TIME*	Leq 5 m	Leq 3 m
06:15-06:20 HOUR	65.0	63.0
06:20-06:25 HOUR	64.6	62.8
06:25-06:30 HOUR	64.2	61.0
06:30-06:35 HOUR	65.7	63.9
06:35-06:40 HOUR	64.1	59.3
06:40-06:45 HOUR	62.1	59.0
06:45-06:50 HOUR	63.3	60.8
06:50-06:55 HOUR	64.2	62.4
06:55-07:00 HOUR	64.7	62.8
07:00-07:05 HOUR	64.8	62.5
07:05-07:10 HOUR	64.0	63.3
07:10-07:15 HOUR	64.6	66.3
07:15-07:20 HOUR	63.8	61.2
07:20-07:25 HOUR	64.6	61.2
07:25-07:30 HOUR	62.8	59.3
07:30-07:35 HOUR	62.2	57.9
07:35-07:40 HOUR	62.0	57.4
07:40-07:45 HOUR	62.5	62.8
07:45-07:50 HOUR	67.0	61.0
07:50-07:55 HOUR	66.3	59.4
07:55-08:00 HOUR	60.1	54.7
08:00-08:05 HOUR	60.8	56.3
08:05-08:10 HOUR	62.7	54.9
08:10-08:15 HOUR	62.5	55.6
08:15-08:20 HOUR	61.2	55.7
08:20-08:25 HOUR	61.3	54.3
08:25-08:30 HOUR	61.5	55.6
08:30-08:35 HOUR	63.5	57.0
08:35-08:40 HOUR	58.8	51.0
08:40-08:45 HOUR	62.6	54.2
08:45-08:50 HOUR	68.5	54.6
08:50-08:55 HOUR	63.0	56.3
08:55-09:00 HOUR	66.6	54.4

RESULT dB(A)		
Uji Kebisingan di Lokasi Pengukuran		
JUNE 17 - 18, 2024		
TJAB-8006-0003		
TIME*	Leq 5 m	Leq 3 m
07:00-07:05 HOUR	66.4	54.3
07:05-07:10 HOUR	66.3	54.4
07:10-07:15 HOUR	66.7	58.0
07:15-07:20 HOUR	66.9	56.5
07:20-07:25 HOUR	64.8	54.9
07:25-07:30 HOUR	63.8	54.7
07:30-07:35 HOUR	68.1	57.0
07:35-07:40 HOUR	59.2	53.7
07:40-07:45 HOUR	65.1	54.4
07:45-07:50 HOUR	62.8	54.8
07:50-07:55 HOUR	64.2	54.9
07:55-08:00 HOUR	63.7	54.2
08:00-08:05 HOUR	68.5	56.5
08:05-08:10 HOUR	64.7	53.9
08:10-08:15 HOUR	65.5	54.7
08:15-08:20 HOUR	64.5	54.0
08:20-08:25 HOUR	63.2	54.7
08:25-08:30 HOUR	64.5	54.5
08:30-08:35 HOUR	65.3	56.5
08:35-08:40 HOUR	67.1	56.8
08:40-08:45 HOUR	63.1	53.6
08:45-08:50 HOUR	65.0	54.7
08:50-08:55 HOUR	65.2	55.7
08:55-09:00 HOUR	64.7	55.3
09:00-09:05 HOUR	65.7	54.4
09:05-09:10 HOUR	64.3	53.8
09:10-09:15 HOUR	66.7	57.8
09:15-09:20 HOUR	62.0	54.1
09:20-09:25 HOUR	61.7	54.9
09:25-09:30 HOUR	64.0	55.9
09:30-09:35 HOUR	63.8	58.0
09:35-09:40 HOUR	59.1	54.5
09:40-09:45 HOUR	63.8	53.4
09:45-09:50 HOUR	64.2	55.3
09:50-09:55 HOUR	62.7	56.2
09:55-10:00 HOUR	62.8	53.8
10:00-10:05 HOUR	65.6	55.6
10:05-10:10 HOUR	63.7	54.9
10:10-10:15 HOUR	65.2	54.5
10:15-10:20 HOUR	58.7	61.9
10:20-10:25 HOUR	62.0	54.3
10:25-10:30 HOUR	60.2	54.5
10:30-10:35 HOUR	64.9	55.9
10:35-10:40 HOUR	62.2	56.9
10:40-10:45 HOUR	62.8	57.4
10:45-10:50 HOUR	58.6	54.4
10:50-10:55 HOUR	64.4	54.0
10:55-11:00 HOUR	62.4	55.0
11:00-11:05 HOUR	67.5	56.1
11:05-11:10 HOUR	63.7	57.1
11:10-11:15 HOUR	60.6	54.8

RESULT dB(A)		
ข้อมูลการตรวจวัด 20/1 ถนนสุขุมวิท กรุงเทพมหานคร		
JUNE 17 - 18, 2024		
T24AR006-0033		
TIME*	Long 3 min	Long 2 min
11:05-11:20 HOUR	67.2	55.7
11:20-11:35 HOUR	66.0	57.0
11:35-11:50 HOUR	66.1	56.0
11:50-12:05 HOUR	62.5	54.4
12:05-12:20 HOUR	61.7	55.4
12:20-12:35 HOUR	65.7	53.1
12:35-12:50 HOUR	65.5	56.6
12:50-13:05 HOUR	65.5	55.0
13:05-13:20 HOUR	63.4	54.3
13:20-13:35 HOUR	64.7	54.7
13:35-13:50 HOUR	60.8	51.0
13:50-14:05 HOUR	60.3	51.0
14:05-14:20 HOUR	64.4	51.8
14:20-14:35 HOUR	57.3	51.2
14:35-14:50 HOUR	65.3	52.7
14:50-15:05 HOUR	59.2	54.1
15:05-15:20 HOUR	59.2	51.6
15:20-15:35 HOUR	60.1	53.2
15:35-15:50 HOUR	62.0	50.9
15:50-16:05 HOUR	58.6	52.3
16:05-16:20 HOUR	62.9	51.7
16:20-16:35 HOUR	65.3	53.8
16:35-16:50 HOUR	61.4	53.4
16:50-17:05 HOUR	67.0	56.7
17:05-17:20 HOUR	59.8	53.7
17:20-17:35 HOUR	64.2	56.3
17:35-17:50 HOUR	61.9	56.2
17:50-18:05 HOUR	60.9	53.1
18:05-18:20 HOUR	61.8	54.7
18:20-18:35 HOUR	58.7	53.9
18:35-18:50 HOUR	62.0	53.5
18:50-19:05 HOUR	59.4	54.7
19:05-19:20 HOUR	62.5	56.0
19:20-19:35 HOUR	67.1	56.8
19:35-19:50 HOUR	63.8	56.2
19:50-20:05 HOUR	60.5	54.4
20:05-20:20 HOUR	62.7	57.7
20:20-20:35 HOUR	62.7	57.0
20:35-20:50 HOUR	55.0	57.2
20:50-21:05 HOUR	65.7	56.1
21:05-21:20 HOUR	61.1	56.4
21:20-21:35 HOUR	55.6	56.4
21:35-21:50 HOUR	64.2	55.8
21:50-22:05 HOUR	62.5	56.2
22:05-22:20 HOUR	61.5	55.5
22:20-22:35 HOUR	55.8	55.0
22:35-22:50 HOUR	61.0	55.3
22:50-23:05 HOUR	61.0	55.3
23:05-23:20 HOUR	55.3	55.6
23:20-23:35 HOUR	67.8	56.8
23:35-23:50 HOUR	56.2	57.2

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FOR WORKING OFFICE  
 AND ANALYSIS REPORTING  
 BY THE LABORATORY

14/03

2024-0506563

RESULT dB(A)		
ข้อมูลการตรวจวัด 20/1 ถนนสุขุมวิท กรุงเทพมหานคร		
JUNE 17 - 18, 2024		
T24AR006-0033		
TIME*	Long 3 min	Long 2 min
23:30-23:45 HOUR	66.1	56.3
23:45-24:00 HOUR	58.4	55.2
24:00-24:15 HOUR	65.3	57.3
24:15-24:30 HOUR	62.5	56.7
24:30-24:45 HOUR	60.8	55.8
24:45-25:00 HOUR	59.9	54.8
25:00-25:15 HOUR	60.4	55.4
25:15-25:30 HOUR	63.9	56.1
25:30-25:45 HOUR	60.5	55.5
25:45-26:00 HOUR	63.1	56.6
26:00-26:15 HOUR	62.7	57.0
26:15-26:30 HOUR	62.8	55.7
26:30-26:45 HOUR	60.9	56.2
26:45-27:00 HOUR	63.0	56.9
27:00-27:15 HOUR	65.9	57.1
27:15-27:30 HOUR	65.2	57.0
27:30-27:45 HOUR	66.3	58.0
27:45-28:00 HOUR	63.7	57.8
28:00-28:15 HOUR	65.2	56.9
28:15-28:30 HOUR	61.5	57.4
28:30-28:45 HOUR	66.2	56.4
28:45-29:00 HOUR	67.8	56.5
29:00-29:15 HOUR	64.3	56.4
29:15-29:30 HOUR	63.2	53.4
29:30-29:45 HOUR	68.1	55.1
29:45-30:00 HOUR	62.7	56.2
30:00-30:15 HOUR	62.7	55.4
30:15-30:30 HOUR	59.8	54.7
30:30-30:45 HOUR	59.9	54.1
30:45-31:00 HOUR	64.8	55.2
31:00-31:15 HOUR	67.9	54.8
31:15-31:30 HOUR	61.4	53.8
31:30-31:45 HOUR	63.6	53.6
31:45-32:00 HOUR	58.8	53.8
32:00-32:15 HOUR	61.8	53.9
32:15-32:30 HOUR	50.1	53.9
32:30-32:45 HOUR	52.3	53.1
32:45-33:00 HOUR	61.2	54.2
33:00-33:15 HOUR	61.0	54.9
33:15-33:30 HOUR	53.4	53.3
33:30-33:45 HOUR	62.8	53.9
33:45-34:00 HOUR	61.1	53.1
34:00-34:15 HOUR	64.2	54.2
34:15-34:30 HOUR	64.0	52.6
34:30-34:45 HOUR	65.2	54.3
34:45-35:00 HOUR	65.5	53.2

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FOR WORKING OFFICE  
 AND ANALYSIS REPORTING  
 BY THE LABORATORY

15/10

2024-0506563



TIME*	RESULT (B/A)	
	Long 1 min	Long 2 min
00:00-00:05 HOUR	68.1	68.1
00:05-00:10 HOUR	67.8	68.5
00:10-00:15 HOUR	68.4	68.0
00:15-00:20 HOUR	68.4	67.4
00:20-00:25 HOUR	69.3	67.8
00:25-00:30 HOUR	69.0	68.5
00:30-00:35 HOUR	69.1	67.2
00:35-00:40 HOUR	69.3	67.8
00:40-00:45 HOUR	69.5	67.7
00:45-00:50 HOUR	68.9	67.0
00:50-00:55 HOUR	68.4	66.6
00:55-01:00 HOUR	68.3	65.8
01:00-01:05 HOUR	69.0	67.3
01:05-01:10 HOUR	69.0	66.8
01:10-01:15 HOUR	68.4	65.7
01:15-01:20 HOUR	68.7	66.4
01:20-01:25 HOUR	69.6	67.7
01:25-01:30 HOUR	69.6	68.3
01:30-01:35 HOUR	69.2	67.3
01:35-01:40 HOUR	69.5	67.6
01:40-01:45 HOUR	69.7	67.6
01:45-01:50 HOUR	68.9	66.7
01:50-01:55 HOUR	67.5	67.0
01:55-02:00 HOUR	66.8	66.8
02:00-02:05 HOUR	67.4	66.4
02:05-02:10 HOUR	67.5	66.8
02:10-02:15 HOUR	68.1	66.6
02:15-02:20 HOUR	68.4	66.9
02:20-02:25 HOUR	67.9	65.0
02:25-02:30 HOUR	67.6	64.8
02:30-02:35 HOUR	66.9	65.0
02:35-02:40 HOUR	67.9	65.1
02:40-02:45 HOUR	68.2	65.6
02:45-02:50 HOUR	66.9	62.6
02:50-02:55 HOUR	68.0	63.8
02:55-03:00 HOUR	69.0	66.0
03:00-03:05 HOUR	67.8	64.9
03:05-03:10 HOUR	67.0	62.7
03:10-03:15 HOUR	67.8	62.6
03:15-03:20 HOUR	66.2	64.4
03:20-03:25 HOUR	67.8	65.3
03:25-03:30 HOUR	69.0	64.3
03:30-03:35 HOUR	69.1	63.4
03:35-03:40 HOUR	67.9	61.7
03:40-03:45 HOUR	66.3	59.0
03:45-03:50 HOUR	67.1	57.4
03:50-03:55 HOUR	66.8	51.6
03:55-04:00 HOUR	67.2	51.5
04:00-04:05 HOUR	64.8	54.2
04:05-04:10 HOUR	65.4	56.9
04:10-04:15 HOUR	66.1	

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NO MODIFICATION  
 NO MODIFICATION  
 NO MODIFICATION

37/30

2024-06-04-2

TIME*	RESULT (B/A)	
	Long 1 min	Long 2 min
19:45-19:50 HOUR	51.7	51.7
19:50-19:55 HOUR	51.7	51.0
19:55-20:00 HOUR	51.8	51.8
20:00-20:05 HOUR	51.7	51.0
20:05-20:10 HOUR	51.8	51.8
20:10-20:15 HOUR	51.7	51.8
20:15-20:20 HOUR	51.7	51.8
20:20-20:25 HOUR	51.7	51.8
20:25-20:30 HOUR	51.7	51.8
20:30-20:35 HOUR	51.7	51.8
20:35-20:40 HOUR	51.7	51.8
20:40-20:45 HOUR	51.7	51.8
20:45-20:50 HOUR	51.7	51.8
20:50-20:55 HOUR	51.7	51.8
20:55-21:00 HOUR	51.7	51.8
21:00-21:05 HOUR	51.7	51.8
21:05-21:10 HOUR	51.7	51.8
21:10-21:15 HOUR	51.7	51.8
21:15-21:20 HOUR	51.7	51.8
21:20-21:25 HOUR	51.7	51.8
21:25-21:30 HOUR	51.7	51.8
21:30-21:35 HOUR	51.7	51.8
21:35-21:40 HOUR	51.7	51.8
21:40-21:45 HOUR	51.7	51.8
21:45-21:50 HOUR	51.7	51.8
21:50-21:55 HOUR	51.7	51.8
21:55-22:00 HOUR	51.7	51.8
22:00-22:05 HOUR	51.7	51.8
22:05-22:10 HOUR	51.7	51.8
22:10-22:15 HOUR	51.7	51.8
22:15-22:20 HOUR	51.7	51.8
22:20-22:25 HOUR	51.7	51.8
22:25-22:30 HOUR	51.7	51.8
22:30-22:35 HOUR	51.7	51.8
22:35-22:40 HOUR	51.7	51.8
22:40-22:45 HOUR	51.7	51.8
22:45-22:50 HOUR	51.7	51.8
22:50-22:55 HOUR	51.7	51.8
22:55-23:00 HOUR	51.7	51.8
23:00-23:05 HOUR	51.7	51.8
23:05-23:10 HOUR	51.7	51.8
23:10-23:15 HOUR	51.7	51.8
23:15-23:20 HOUR	51.7	51.8
23:20-23:25 HOUR	51.7	51.8
23:25-23:30 HOUR	51.7	51.8
23:30-23:35 HOUR	51.7	51.8
23:35-23:40 HOUR	51.7	51.8
23:40-23:45 HOUR	51.7	51.8
23:45-23:50 HOUR	51.7	51.8
23:50-23:55 HOUR	51.7	51.8
23:55-00:00 HOUR	51.7	51.8

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NO MODIFICATION  
 NO MODIFICATION  
 NO MODIFICATION

36/30

2024-06-04-2

TIME*	RESULT DB(A)	
	อัตราความถี่เสียง - 20/1 ชั่วโมง การวัดและประเมินผล	
	JUNE 17 - 18, 2024 T24AN006-0033	
	Leq 2 min	Leq 1 min
04:15-04:20 HOUR	66.2	56.8
04:20-04:25 HOUR	66.5	62.1
04:25-04:30 HOUR	66.7	63.1
04:30-04:35 HOUR	66.7	63.1
04:35-04:40 HOUR	66.8	63.8
04:40-04:45 HOUR	65.3	60.0
04:45-04:50 HOUR	67.5	61.5
04:50-04:55 HOUR	66.6	56.4
04:55-05:00 HOUR	66.2	56.7
05:00-05:05 HOUR	64.0	60.1
05:05-05:10 HOUR	65.0	51.8
05:15-05:20 HOUR	63.1	48.8
05:20-05:25 HOUR	61.8	48.0
05:25-05:30 HOUR	67.3	55.5
05:30-05:35 HOUR	69.3	56.0
05:35-05:40 HOUR	66.4	54.5
05:40-05:45 HOUR	68.1	54.9
05:45-05:50 HOUR	58.2	54.0
05:50-05:55 HOUR	58.7	53.9
05:55-06:00 HOUR	58.6	53.4
06:00-06:05 HOUR	61.3	54.3
06:05-06:10 HOUR	57.6	53.3
06:10-06:15 HOUR	60.8	52.4
06:15-06:20 HOUR	65.0	52.3
06:20-06:25 HOUR	61.2	54.2
06:25-06:30 HOUR	64.8	53.0
06:30-06:35 HOUR	61.9	52.8
06:35-06:40 HOUR	60.3	53.8
06:40-06:45 HOUR	60.8	53.5
06:45-06:50 HOUR	59.3	52.3
06:50-06:55 HOUR	63.8	54.8
06:55-07:00 HOUR	61.8	53.1
07:00-07:05 HOUR	61.2	52.7

TIME*	RESULT DB(A)	
	อัตราความถี่เสียง - 20/1 ชั่วโมง การวัดและประเมินผล	
	JUNE 18 - 19, 2024 T24AN006-0004	
	Leq 2 min	Leq 1 min
07:00-07:05 HOUR	61.3	51.7
07:05-07:10 HOUR	67.4	54.4
07:10-07:15 HOUR	66.0	55.0
07:15-07:20 HOUR	68.3	54.8
07:20-07:25 HOUR	66.0	54.5
07:25-07:30 HOUR	63.1	54.2
07:30-07:35 HOUR	64.9	53.7
07:35-07:40 HOUR	66.5	53.7
07:40-07:45 HOUR	65.0	52.8
07:45-07:50 HOUR	68.6	55.6
07:50-07:55 HOUR	61.0	52.4
07:55-08:00 HOUR	62.4	52.9
08:00-08:05 HOUR	65.7	53.7
08:05-08:10 HOUR	58.6	54.2
08:10-08:15 HOUR	59.2	52.8
08:15-08:20 HOUR	63.5	54.2
08:20-08:25 HOUR	63.1	54.6
08:25-08:30 HOUR	68.0	54.9
08:30-08:35 HOUR	64.1	55.4
08:35-08:40 HOUR	63.4	56.0
08:40-08:45 HOUR	63.8	54.6
08:45-08:50 HOUR	63.9	54.6
08:50-08:55 HOUR	68.6	54.7
08:55-09:00 HOUR	60.7	53.5
09:00-09:05 HOUR	66.9	54.7
09:05-09:10 HOUR	62.3	56.2
09:10-09:15 HOUR	58.6	52.6
09:15-09:20 HOUR	58.0	52.8
09:20-09:25 HOUR	63.2	54.3
09:25-09:30 HOUR	58.7	53.1
09:30-09:35 HOUR	57.6	52.8
09:35-09:40 HOUR	56.5	52.1
09:40-09:45 HOUR	60.3	54.9
09:45-09:50 HOUR	63.7	56.0
09:50-09:55 HOUR	62.6	58.6
09:55-10:00 HOUR	58.5	53.1
10:00-10:05 HOUR	67.7	54.5
10:05-10:10 HOUR	64.8	53.5
10:10-10:15 HOUR	63.1	56.0
10:15-10:20 HOUR	58.7	52.6
10:20-10:25 HOUR	59.3	53.3
10:25-10:30 HOUR	66.1	54.2
10:30-10:35 HOUR	62.7	50.6
10:35-10:40 HOUR	59.1	54.3
10:40-10:45 HOUR	57.2	52.4
10:45-10:50 HOUR	63.7	53.1
10:50-10:55 HOUR	65.2	51.2
10:55-11:00 HOUR	61.3	54.9
11:00-11:05 HOUR	64.2	53.3
11:05-11:10 HOUR	59.0	61.0
11:10-11:15 HOUR	65.2	54.1

RESULT (A)		
อุณหภูมิอากาศภายใน 26/3 จำนวนการตรวจวัด 6 ครั้งต่อเนื่องกัน		
JUNE 18 - 19, 2024		
T24H306-0004		
TIME*	Low 3 min	Low 2 min
11:35-11:40 HOUR	59.0	53.8
11:40-11:45 HOUR	67.1	55.4
11:45-11:50 HOUR	64.3	64.2
11:50-11:55 HOUR	63.5	54.1
11:55-12:00 HOUR	59.5	54.8
12:00-12:05 HOUR	58.2	51.7
12:05-12:10 HOUR	64.0	51.8
12:10-12:15 HOUR	64.0	51.0
12:15-12:20 HOUR	60.5	53.2
12:20-12:25 HOUR	62.5	51.3
12:25-12:30 HOUR	58.0	56.8
12:30-12:35 HOUR	62.1	51.5
12:35-12:40 HOUR	61.1	48.8
12:40-12:45 HOUR	64.0	52.8
12:45-12:50 HOUR	66.1	52.3
12:50-12:55 HOUR	66.1	56.7
12:55-13:00 HOUR	65.8	52.2
13:00-13:05 HOUR	63.9	51.0
13:05-13:10 HOUR	66.4	51.8
13:10-13:15 HOUR	66.2	51.7
13:15-13:20 HOUR	59.0	52.7
13:20-13:25 HOUR	57.5	54.1
13:25-13:30 HOUR	65.5	55.1
13:30-13:35 HOUR	61.0	54.4
13:35-13:40 HOUR	66.0	54.8
13:40-13:45 HOUR	57.5	54.1
13:45-13:50 HOUR	62.1	55.4
13:50-13:55 HOUR	63.3	56.7
13:55-14:00 HOUR	67.2	58.5
14:00-14:05 HOUR	61.8	57.8
14:05-14:10 HOUR	61.5	55.6
14:10-14:15 HOUR	63.8	56.8
14:15-14:20 HOUR	62.5	54.8
14:20-14:25 HOUR	60.5	54.1
14:25-14:30 HOUR	61.8	55.2
14:30-14:35 HOUR	63.4	57.1
14:35-14:40 HOUR	63.4	56.8
14:40-14:45 HOUR	64.5	56.4
14:45-14:50 HOUR	63.5	55.4
14:50-14:55 HOUR	65.3	55.5
14:55-15:00 HOUR	62.6	55.4
15:00-15:05 HOUR	67.7	55.3
15:05-15:10 HOUR	66.1	54.5
15:10-15:15 HOUR	64.2	54.5
15:15-15:20 HOUR	62.4	52.6
15:20-15:25 HOUR	61.2	55.1
15:25-15:30 HOUR	64.5	55.6

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20/20

2633-UNB613

NO EXCESSIVE  
NO EXCESSIVE  
NO EXCESSIVE

RESULT (A)		
อุณหภูมิอากาศภายใน 20/3 จำนวนการตรวจวัด 6 ครั้งต่อเนื่องกัน		
JUNE 18 - 19, 2024		
T24H306-0004		
TIME*	Low 3 min	Low 2 min
15:30-15:35 HOUR	66.5	55.1
15:35-15:40 HOUR	65.1	56.7
15:40-15:45 HOUR	62.0	56.9
15:45-15:50 HOUR	65.1	52.5
15:50-15:55 HOUR	67.3	57.2
15:55-16:00 HOUR	60.8	56.8
16:00-16:05 HOUR	60.8	51.9
16:05-16:10 HOUR	65.3	55.4
16:10-16:15 HOUR	60.7	55.0
16:15-16:20 HOUR	64.7	55.0
16:20-16:25 HOUR	64.1	56.0
16:25-16:30 HOUR	64.0	55.0
16:30-16:35 HOUR	62.0	55.1
16:35-16:40 HOUR	66.9	56.4
16:40-16:45 HOUR	63.5	55.6
16:45-16:50 HOUR	61.0	55.0
16:50-16:55 HOUR	63.4	55.3
16:55-17:00 HOUR	60.6	54.5
17:00-17:05 HOUR	65.5	52.6
17:05-17:10 HOUR	60.2	51.9
17:10-17:15 HOUR	64.1	54.7
17:15-17:20 HOUR	60.3	53.3
17:20-17:25 HOUR	60.5	55.0
17:25-17:30 HOUR	63.7	55.5
17:30-17:35 HOUR	65.1	55.8
17:35-17:40 HOUR	58.4	54.2
17:40-17:45 HOUR	68.1	56.6
17:45-17:50 HOUR	66.4	54.0
17:50-17:55 HOUR	63.2	57.9
17:55-18:00 HOUR	64.6	57.2
18:00-18:05 HOUR	65.4	51.9
18:05-18:10 HOUR	58.0	52.0
18:10-18:15 HOUR	61.8	53.8
18:15-18:20 HOUR	65.7	53.6
18:20-18:25 HOUR	65.5	53.2
18:25-18:30 HOUR	59.7	53.9
18:30-18:35 HOUR	63.1	52.8
18:35-18:40 HOUR	66.4	51.5
18:40-18:45 HOUR	64.6	51.8
18:45-18:50 HOUR	65.0	52.7
18:50-18:55 HOUR	61.1	53.2
18:55-19:00 HOUR	67.0	55.6
19:00-19:05 HOUR	62.7	56.6
19:05-19:10 HOUR	64.2	51.0
19:10-19:15 HOUR	62.6	52.8
19:15-19:20 HOUR	63.9	52.1
19:20-19:25 HOUR	61.5	51.5
19:25-19:30 HOUR	66.0	51.7
19:30-19:35 HOUR	60.8	54.4
19:35-19:40 HOUR	65.4	55.4
19:40-19:45 HOUR	61.6	54.3

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21/20

2024-UNB612

NO EXCESSIVE  
NO EXCESSIVE  
NO EXCESSIVE



TIME*	RESULT (dB(A))	
	Without background noise	With background noise
	Long 3 min	Long 3 min
19:45-20:00 HOUR	60.9	55.0
19:50-20:05 HOUR	60.9	52.6
19:55-20:10 HOUR	63.9	52.9
20:00-20:15 HOUR	64.6	53.8
20:05-20:20 HOUR	63.4	56.2
20:10-20:25 HOUR	63.1	51.8
20:15-20:30 HOUR	65.9	54.1
20:20-20:35 HOUR	66.5	52.2
20:25-20:40 HOUR	65.5	57.3
20:30-20:45 HOUR	64.3	54.3
20:35-20:50 HOUR	62.4	56.0
20:40-20:55 HOUR	57.8	52.4
20:45-21:00 HOUR	60.7	51.6
20:50-21:05 HOUR	53.8	52.1
20:55-21:10 HOUR	59.8	52.3
21:00-21:15 HOUR	60.0	52.8
21:05-21:20 HOUR	60.8	52.7
21:10-21:25 HOUR	66.2	52.4
21:15-21:30 HOUR	59.7	52.8
21:20-21:35 HOUR	60.7	53.1
21:25-21:40 HOUR	60.5	50.8
21:30-21:45 HOUR	60.0	62.3
21:35-21:50 HOUR	57.7	53.6
21:40-21:55 HOUR	59.8	53.6
21:45-22:00 HOUR	63.0	53.3
21:50-22:05 HOUR	60.4	53.4
21:55-22:10 HOUR	63.2	52.7
22:00-22:15 HOUR	61.2	52.0
22:05-22:20 HOUR	60.6	52.1
22:10-22:25 HOUR	65.4	52.4
22:15-22:30 HOUR	62.0	51.9
22:20-22:35 HOUR	59.7	51.7
22:25-22:40 HOUR	65.1	52.7
22:30-22:45 HOUR	59.8	53.0
22:35-22:50 HOUR	57.9	52.2
22:40-22:55 HOUR	64.7	53.2
22:45-23:00 HOUR	59.8	52.8
22:50-23:05 HOUR	67.0	53.2
22:55-23:10 HOUR	60.1	52.8
23:00-23:15 HOUR	66.0	55.8
23:05-23:20 HOUR	63.9	53.6
23:10-23:25 HOUR	65.0	51.9
23:15-23:30 HOUR	66.1	52.7
23:20-23:35 HOUR	62.3	52.4
23:25-23:40 HOUR	56.7	53.1
23:30-23:45 HOUR	67.6	53.1
23:35-23:50 HOUR	63.0	52.3
23:40-23:55 HOUR	68.1	52.1
23:45-24:00 HOUR	64.1	52.3
23:50-24:05 HOUR	64.9	50.7
23:55-24:10 HOUR	62.1	51.8

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NO MODIFICATION  
 BY WRITING OFFICE  
 AT THE LABORATORY (LAE)

22/70

2024-0926582

TIME*	RESULT (dB(A))	
	Without background noise	With background noise
	Long 3 min	Long 3 min
00:00-00:05 HOUR	59.8	53.3
00:05-00:10 HOUR	62.3	53.3
00:10-00:15 HOUR	65.0	52.3
00:15-00:20 HOUR	66.7	53.7
00:20-00:25 HOUR	58.7	53.8
00:25-00:30 HOUR	60.7	51.0
00:30-00:35 HOUR	64.5	52.1
00:35-00:40 HOUR	55.7	52.4
00:40-00:45 HOUR	64.1	51.0
00:45-00:50 HOUR	53.4	54.4
00:50-00:55 HOUR	52.5	56.9
00:55-01:00 HOUR	63.1	53.2
01:00-01:05 HOUR	60.4	57.0
01:05-01:10 HOUR	60.1	62.7
01:10-01:15 HOUR	65.0	54.1
01:15-01:20 HOUR	61.3	48.0
01:20-01:25 HOUR	64.1	51.6
01:25-01:30 HOUR	63.3	56.4
01:30-01:35 HOUR	63.8	59.4
01:35-01:40 HOUR	65.2	63.7
01:40-01:45 HOUR	66.4	64.3
01:45-01:50 HOUR	66.1	63.6
01:50-01:55 HOUR	67.3	64.4
01:55-02:00 HOUR	68.0	64.9
02:00-02:05 HOUR	66.6	62.6
02:05-02:10 HOUR	68.9	65.9
02:10-02:15 HOUR	69.3	64.8
02:15-02:20 HOUR	68.8	67.6
02:20-02:25 HOUR	67.7	67.3
02:25-02:30 HOUR	68.6	65.8
02:30-02:35 HOUR	68.3	66.6
02:35-02:40 HOUR	69.3	67.2
02:40-02:45 HOUR	68.1	66.7
02:45-02:50 HOUR	68.4	67.3
02:50-02:55 HOUR	68.3	66.3
02:55-03:00 HOUR	69.3	66.5
03:00-03:05 HOUR	68.0	66.3
03:05-03:10 HOUR	68.6	66.3
03:10-03:15 HOUR	67.8	64.4
03:15-03:20 HOUR	68.1	64.8
03:20-03:25 HOUR	67.9	64.1
03:25-03:30 HOUR	66.3	56.6
03:30-03:35 HOUR	63.6	44.6
03:35-03:40 HOUR	65.1	45.3
03:40-03:45 HOUR	68.1	56.2
03:45-03:50 HOUR	67.6	50.8
03:50-03:55 HOUR	67.8	51.8
03:55-04:00 HOUR	68.0	51.0
04:00-04:05 HOUR	66.2	53.3
04:05-04:10 HOUR	65.3	64.3
04:10-04:15 HOUR	58.2	61.3

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 AT THE LABORATORY (LAE)

23/70

2024-0056582

TIME*	RESULT dBA	
	ข้อมูลการตรวจวัดตาม 2015 ตามมาตรฐานสิ่งแวดล้อมของกรุงเทพมหานคร	
	ZONE 1B - 1B, 2024	
	T24H006-0004	
TIME*	Long 5 min	Limit 5 min
04:15-04:20 HOUR	67.5	50.8
04:20-04:25 HOUR	66.4	49.3
04:25-04:30 HOUR	67.3	53.4
04:30-04:35 HOUR	65.6	53.9
04:35-04:40 HOUR	60.9	52.3
04:40-04:45 HOUR	61.3	54.0
04:45-04:50 HOUR	56.2	53.2
04:50-04:55 HOUR	56.5	53.9
04:55-05:00 HOUR	63.6	54.1
05:00-05:05 HOUR	59.3	53.9
05:05-05:10 HOUR	56.2	53.4
05:10-05:15 HOUR	65.5	53.0
05:15-05:20 HOUR	67.4	52.9
05:20-05:25 HOUR	58.4	54.0
05:25-05:30 HOUR	67.7	54.4
05:30-05:35 HOUR	65.7	55.1
05:35-05:40 HOUR	65.9	55.0
05:40-05:45 HOUR	59.6	54.7
05:45-05:50 HOUR	58.6	54.0
05:50-05:55 HOUR	59.3	54.5
05:55-06:00 HOUR	61.3	54.6
06:00-06:05 HOUR	58.5	53.7
06:05-06:10 HOUR	58.1	53.4
06:10-06:15 HOUR	61.6	53.3
06:15-06:20 HOUR	65.3	52.0
06:20-06:25 HOUR	65.8	53.4
06:25-06:30 HOUR	67.0	53.5
06:30-06:35 HOUR	62.1	53.0
06:35-06:40 HOUR	59.0	52.0
06:40-06:45 HOUR	62.5	53.2
06:45-06:50 HOUR	66.2	53.7
06:50-06:55 HOUR	59.0	53.8
06:55-07:00 HOUR	61.7	53.4

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24/30

2024-050562

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TIME*	RESULT dBA	
	ข้อมูลการตรวจวัดตาม 2015 ตามมาตรฐานสิ่งแวดล้อมของกรุงเทพมหานคร	
	ZONE 1B - 20, 2024	
	T24H006-0005	
TIME*	Long 5 min	Limit 5 min
07:00-07:05 HOUR	66.8	53.3
07:05-07:10 HOUR	64.2	60.2
07:10-07:15 HOUR	67.5	54.4
07:15-07:20 HOUR	59.7	53.9
07:20-07:25 HOUR	61.3	53.6
07:25-07:30 HOUR	67.1	56.0
07:30-07:35 HOUR	66.9	56.3
07:35-07:40 HOUR	66.4	53.3
07:40-07:45 HOUR	61.0	53.1
07:45-07:50 HOUR	58.4	53.0
07:50-07:55 HOUR	60.4	53.7
07:55-08:00 HOUR	62.3	54.0
08:00-08:05 HOUR	61.8	54.8
08:05-08:10 HOUR	63.7	58.4
08:10-08:15 HOUR	59.3	53.4
08:15-08:20 HOUR	62.5	54.8
08:20-08:25 HOUR	64.1	57.2
08:25-08:30 HOUR	63.4	55.6
08:30-08:35 HOUR	66.8	55.0
08:35-08:40 HOUR	65.7	55.2
08:40-08:45 HOUR	65.8	54.2
08:45-08:50 HOUR	63.6	54.8
08:50-08:55 HOUR	62.8	57.0
08:55-09:00 HOUR	65.3	55.4
09:00-09:05 HOUR	62.8	56.9
09:05-09:10 HOUR	64.2	58.9
09:10-09:15 HOUR	64.0	59.3
09:15-09:20 HOUR	62.3	57.9
09:20-09:25 HOUR	59.4	55.1
09:25-09:30 HOUR	60.8	50.4
09:30-09:35 HOUR	60.4	56.2
09:35-09:40 HOUR	63.5	56.5
09:40-09:45 HOUR	62.9	56.2
09:45-09:50 HOUR	62.5	55.9
09:50-09:55 HOUR	63.7	54.5
09:55-10:00 HOUR	60.9	66.3
10:00-10:05 HOUR	60.7	55.4
10:05-10:10 HOUR	66.4	55.5
10:10-10:15 HOUR	62.8	54.7
10:15-10:20 HOUR	62.4	56.0
10:20-10:25 HOUR	59.4	53.2
10:25-10:30 HOUR	63.8	57.6
10:30-10:35 HOUR	66.1	56.6
10:35-10:40 HOUR	63.4	57.5
10:40-10:45 HOUR	60.5	55.0
10:45-10:50 HOUR	61.8	57.4
10:50-10:55 HOUR	63.8	57.7
10:55-11:00 HOUR	66.6	57.4
11:00-11:05 HOUR	63.5	56.4
11:05-11:10 HOUR	69.5	55.0
11:10-11:15 HOUR	60.5	53.3

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2024-050562

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TIME*	RESULT (H/A)	
	อัตราความเร็วลมเฉลี่ย 20/1 ชั่วโมง ณ สถานีตรวจวัด ลมตามแนวยาว	
	JUNE 19 - 30, 2024	
TIME*	T24AH006-C005	
	Long 3 min	Long 5 min
12:15-12:20 HOUR	60.4	54.0
12:20-12:25 HOUR	64.8	54.3
12:25-12:30 HOUR	62.6	53.3
12:30-12:35 HOUR	66.4	56.7
12:35-12:40 HOUR	63.3	54.6
12:40-12:45 HOUR	66.7	54.0
12:45-12:50 HOUR	65.4	56.7
12:50-12:55 HOUR	63.5	54.8
12:55-13:00 HOUR	61.8	55.3
13:00-13:05 HOUR	62.7	54.7
13:05-13:10 HOUR	60.2	53.2
13:10-13:15 HOUR	60.1	52.9
13:15-13:20 HOUR	59.8	51.5
13:20-13:25 HOUR	64.2	51.9
13:25-13:30 HOUR	63.8	54.3
13:30-13:35 HOUR	64.1	52.1
13:35-13:40 HOUR	58.7	53.0
13:40-13:45 HOUR	60.9	54.3
13:45-13:50 HOUR	60.6	53.3
13:50-13:55 HOUR	62.1	53.2
13:55-14:00 HOUR	66.8	57.8
14:00-14:05 HOUR	67.3	62.7
14:05-14:10 HOUR	63.3	54.5
14:10-14:15 HOUR	65.3	54.8
14:15-14:20 HOUR	63.5	55.9
14:20-14:25 HOUR	64.9	62.3
14:25-14:30 HOUR	65.4	58.6
14:30-14:35 HOUR	64.3	56.4
14:35-14:40 HOUR	67.5	58.5
14:40-14:45 HOUR	67.5	61.0
14:45-14:50 HOUR	65.3	62.0
14:50-14:55 HOUR	64.9	59.7
14:55-15:00 HOUR	66.6	61.3
15:00-15:05 HOUR	64.8	58.0
15:05-15:10 HOUR	60.3	56.0
15:10-15:15 HOUR	67.8	59.0
15:15-15:20 HOUR	66.4	60.9
15:20-15:25 HOUR	62.7	57.6
15:25-15:30 HOUR	66.3	60.5
15:30-15:35 HOUR	57.0	58.6
15:35-15:40 HOUR	57.6	60.6
15:40-15:45 HOUR	65.1	58.1
15:45-15:50 HOUR	63.0	58.3
15:50-15:55 HOUR	63.0	57.8
15:55-16:00 HOUR	66.4	59.7
16:00-16:05 HOUR	65.9	59.2
16:05-16:10 HOUR	62.9	57.8
16:10-16:15 HOUR	65.5	59.5
16:15-16:20 HOUR	65.6	60.2

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TIME*	RESULT (H/A)	
	อัตราความเร็วลมเฉลี่ย 20/1 ชั่วโมง ณ สถานีตรวจวัด ลมตามแนวยาว	
	JUNE 19 - 30, 2024	
TIME*	T24AH006-C005	
	Long 3 min	Long 5 min
15:35-15:40 HOUR	54.6	54.2
15:40-15:45 HOUR	64.6	57.3
15:45-15:50 HOUR	61.8	57.9
15:50-15:55 HOUR	62.3	57.7
15:55-16:00 HOUR	66.1	58.5
16:00-16:05 HOUR	63.8	58.4
16:05-16:10 HOUR	63.0	59.7
16:10-16:15 HOUR	62.0	59.5
16:15-16:20 HOUR	65.8	58.1
16:20-16:25 HOUR	65.2	55.2
16:25-16:30 HOUR	65.5	57.3
16:30-16:35 HOUR	63.2	58.6
16:35-16:40 HOUR	63.8	59.5
16:40-16:45 HOUR	63.4	59.4
16:45-16:50 HOUR	64.7	59.7
16:50-16:55 HOUR	67.2	60.4
16:55-17:00 HOUR	64.5	59.7
17:00-17:05 HOUR	66.1	59.4
17:05-17:10 HOUR	66.8	58.6
17:10-17:15 HOUR	59.8	55.3
17:15-17:20 HOUR	61.9	56.1
17:20-17:25 HOUR	61.4	57.0
17:25-17:30 HOUR	63.2	54.0
17:30-17:35 HOUR	63.8	56.2
17:35-17:40 HOUR	67.4	55.9
17:40-17:45 HOUR	59.5	54.5
17:45-17:50 HOUR	61.6	54.2
17:50-17:55 HOUR	64.1	55.2
17:55-18:00 HOUR	55.9	53.8
18:00-18:05 HOUR	64.4	54.6
18:05-18:10 HOUR	61.8	55.0
18:10-18:15 HOUR	62.2	54.4
18:15-18:20 HOUR	63.3	53.9
18:20-18:25 HOUR	60.4	54.4
18:25-18:30 HOUR	63.8	53.5
18:30-18:35 HOUR	65.3	55.5
18:35-18:40 HOUR	64.9	54.0
18:40-18:45 HOUR	57.2	52.7
18:45-18:50 HOUR	64.7	53.8
18:50-18:55 HOUR	59.8	52.9
18:55-19:00 HOUR	62.0	53.1
19:00-19:05 HOUR	60.2	53.1
19:05-19:10 HOUR	60.8	53.9
19:10-19:15 HOUR	58.8	53.8
19:15-19:20 HOUR	59.8	51.0
19:20-19:25 HOUR	66.2	51.7
19:25-19:30 HOUR	60.5	52.8
19:30-19:35 HOUR	64.1	51.7
19:35-19:40 HOUR	64.8	52.5
19:40-19:45 HOUR	62.3	52.9
19:45-19:50 HOUR	57.8	52.4

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TIME*	RESULT (B/A)	
	JUNE 19 - 26, 2024	
	T34AR006-0005	
	Long (m)	Low (m)
19:05-19:50 HOUR	58.9	51.7
19:50-20:35 HOUR	57.4	52.9
20:35-21:00 HOUR	57.7	53.8
21:00-21:05 HOUR	57.2	54.1
21:05-21:10 HOUR	58.7	54.7
21:10-21:15 HOUR	63.6	54.8
21:15-21:20 HOUR	63.3	54.8
21:20-21:25 HOUR	58.6	53.2
21:25-21:30 HOUR	57.3	52.6
21:30-21:35 HOUR	58.8	53.1
21:35-21:40 HOUR	58.9	52.5
21:40-21:45 HOUR	60.3	51.5
21:45-21:50 HOUR	64.0	52.0
21:50-21:55 HOUR	66.0	51.7
21:55-22:00 HOUR	55.8	51.5
22:00-22:05 HOUR	55.1	51.5
22:05-22:10 HOUR	56.5	51.1
22:10-22:15 HOUR	58.8	52.5
22:15-22:20 HOUR	68.1	51.3
22:20-22:25 HOUR	58.4	51.1
22:25-22:30 HOUR	57.7	51.3
22:30-22:35 HOUR	69.1	51.0
22:35-22:40 HOUR	60.1	51.4
22:40-22:45 HOUR	64.2	51.3
22:45-22:50 HOUR	57.4	51.4
22:50-22:55 HOUR	58.1	51.8
22:55-23:00 HOUR	61.2	54.9
23:00-23:05 HOUR	68.7	51.4
23:05-23:10 HOUR	63.9	54.3
23:10-23:15 HOUR	64.9	54.8
23:15-23:20 HOUR	59.0	54.0
23:20-23:25 HOUR	64.1	53.9
23:25-23:30 HOUR	63.0	54.2
23:30-23:35 HOUR	62.9	54.8
23:35-23:40 HOUR	66.0	54.1
23:40-23:45 HOUR	60.0	54.1
23:45-23:50 HOUR	63.3	53.7
23:50-23:55 HOUR	62.2	53.6
23:55-24:00 HOUR	57.7	53.2
24:00-24:05 HOUR	64.4	53.4
24:05-24:10 HOUR	60.7	53.7
24:10-24:15 HOUR	55.7	53.7
24:15-24:20 HOUR	63.2	53.5
24:20-24:25 HOUR	63.9	53.5
24:25-24:30 HOUR	67.1	52.3
24:30-24:35 HOUR	64.0	54.3
24:35-24:40 HOUR	63.1	52.7
24:40-24:45 HOUR	66.3	52.8
24:45-24:50 HOUR	59.2	52.5
24:50-24:55 HOUR	63.3	53.1
24:55-25:00 HOUR	58.5	51.3

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TIME*		RESULT (dB(A))	
		JUNE 19 - 20, 2024	
		TYMANHOE-0005	
Time	Lang S end	Lang J end	Lat J end
00:00-00:05 HOUR	66.1	64.5	51.3
00:05-00:10 HOUR	63.1		51.0
00:10-00:15 HOUR	64.7		51.1
00:15-00:20 HOUR	61.3		51.8
00:20-00:25 HOUR	65.7		51.4
00:25-00:30 HOUR	62.4		51.3
00:30-00:35 HOUR	69.2		52.0
00:35-00:40 HOUR	61.2		52.0
00:40-00:45 HOUR	64.8		50.7
00:45-00:50 HOUR	59.1		55.1
00:50-00:55 HOUR	62.2		54.5
00:55-01:00 HOUR	58.4		56.7
01:00-01:05 HOUR	62.0		54.4
01:05-01:10 HOUR	66.8		51.8
01:10-01:15 HOUR	57.7		52.1
01:15-01:20 HOUR	64.1		53.2
01:20-01:25 HOUR	68.1		53.9
01:25-01:30 HOUR	64.7		51.6
01:30-01:35 HOUR	63.1		51.8
01:35-01:40 HOUR	67.8		51.9
01:40-01:45 HOUR	66.5		51.2
01:45-01:50 HOUR	66.1		50.4
01:50-01:55 HOUR	64.8		49.9
01:55-02:00 HOUR	65.5		50.8
02:00-02:05 HOUR	66.4		49.8
02:05-02:10 HOUR	69.3		48.8
02:10-02:15 HOUR	65.5		51.5
02:15-02:20 HOUR	66.5		51.5
02:20-02:25 HOUR	66.7		51.0
02:25-02:30 HOUR	55.4		52.2
02:30-02:35 HOUR	69.8		50.2
02:35-02:40 HOUR	65.1		51.9
02:40-02:45 HOUR	69.1		49.3
02:45-02:50 HOUR	64.4		49.9
02:50-02:55 HOUR	51.0		49.5
02:55-03:00 HOUR	65.7		49.3
03:00-03:05 HOUR	68.8		49.2
03:05-03:10 HOUR	68.7		50.5
03:10-03:15 HOUR	69.7		49.8
03:15-03:20 HOUR	69.2		50.1
03:20-03:25 HOUR	67.9		50.1
03:25-03:30 HOUR	68.1		50.1
03:30-03:35 HOUR	68.2		49.6
03:35-03:40 HOUR	67.8		49.5
03:40-03:45 HOUR	67.4		49.5
03:45-03:50 HOUR	69.4		49.2
03:50-03:55 HOUR	66.8		49.5
03:55-04:00 HOUR	60.8		49.2
04:00-04:05 HOUR	62.1		49.7
04:05-04:10 HOUR	64.8		49.5
04:10-04:15 HOUR	60.1		49.7

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800-967-8888

TIME*	RESULT (KKA)	
	อุณหภูมิพื้นผิวพื้นผิวและอุณหภูมิอากาศ	
	JUNE 19 - 30, 2024	
	T244N826-0005	
TIME*	Temp 1 min	Temp 2 min
04:15-04:20 HOUR	64.5	49.2
04:20-04:25 HOUR	63.2	49.1
04:25-04:30 HOUR	65.6	48.7
04:30-04:35 HOUR	64.3	50.7
04:35-04:40 HOUR	56.0	56.0
04:40-04:45 HOUR	51.3	49.6
04:45-04:50 HOUR	52.6	49.4
04:50-04:55 HOUR	55.0	49.6
04:55-05:00 HOUR	54.7	51.7
05:00-05:05 HOUR	65.2	51.1
05:05-05:10 HOUR	55.8	52.8
05:10-05:15 HOUR	53.1	52.3
05:15-05:20 HOUR	41.7	52.9
05:20-05:25 HOUR	67.2	53.4
05:25-05:30 HOUR	60.2	52.4
05:30-05:35 HOUR	56.5	53.2
05:35-05:40 HOUR	58.7	52.1
05:40-05:45 HOUR	57.9	51.4
05:45-05:50 HOUR	61.5	53.7
05:50-05:55 HOUR	58.0	52.3
05:55-06:00 HOUR	62.4	52.4
06:00-06:05 HOUR	58.0	51.8
06:05-06:10 HOUR	64.8	52.0
06:10-06:15 HOUR	62.8	52.6
06:15-06:20 HOUR	66.4	53.5
06:20-06:25 HOUR	62.3	52.4
06:25-06:30 HOUR	64.2	52.4
06:30-06:35 HOUR	68.0	57.3
06:35-06:40 HOUR	66.2	52.8
06:40-06:45 HOUR	61.5	52.2
06:45-06:50 HOUR	59.3	52.5
06:50-06:55 HOUR	41.7	51.7
06:55-07:00 HOUR	58.8	50.6

hit 7x

(MR. SULA BANONGDAJUK)

LABORATORY SUPERVISOR

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- End of Analysis Report -

TIME*	RESULT (KKA)	
	อุณหภูมิพื้นผิวพื้นผิวและอุณหภูมิอากาศ	
	JUNE 12 - 13, 2024	
	T244N813-0005	
TIME*	Temp 1 min	Temp 2 min
07:15-07:20 HOUR	61.0	54.9
07:20-07:25 HOUR	67.0	57.2
07:25-07:30 HOUR	61.5	58.3
07:30-07:35 HOUR	60.9	57.1
07:35-07:40 HOUR	62.5	57.6
07:40-07:45 HOUR	59.6	56.7
07:45-07:50 HOUR	60.8	53.1
07:50-07:55 HOUR	62.1	54.6
07:55-08:00 HOUR	62.0	57.2
08:00-08:05 HOUR	61.4	58.2
08:05-08:10 HOUR	62.0	57.3
08:10-08:15 HOUR	63.7	58.3
08:15-08:20 HOUR	66.8	63.8
08:20-08:25 HOUR	64.5	58.5
08:25-08:30 HOUR	64.8	62.2
08:30-08:35 HOUR	65.1	62.1
08:35-08:40 HOUR	63.5	54.8
08:40-08:45 HOUR	66.6	61.6
08:45-08:50 HOUR	64.8	61.5
08:50-08:55 HOUR	67.8	62.5
08:55-09:00 HOUR	66.4	62.7
09:00-09:05 HOUR	70.0	63.0
09:05-09:10 HOUR	69.4	63.1
09:10-09:15 HOUR	67.8	57.9
09:15-09:20 HOUR	67.8	58.7
09:20-09:25 HOUR	68.5	60.4
09:25-09:30 HOUR	65.7	56.5
09:30-09:35 HOUR	62.8	58.4
09:35-09:40 HOUR	62.2	58.4
09:40-09:45 HOUR	63.8	60.0
09:45-09:50 HOUR	61.6	56.8
09:50-09:55 HOUR	63.2	59.4
09:55-10:00 HOUR	63.5	59.1

hit 7x

(MR. SULA BANONGDAJUK)

LABORATORY SUPERVISOR

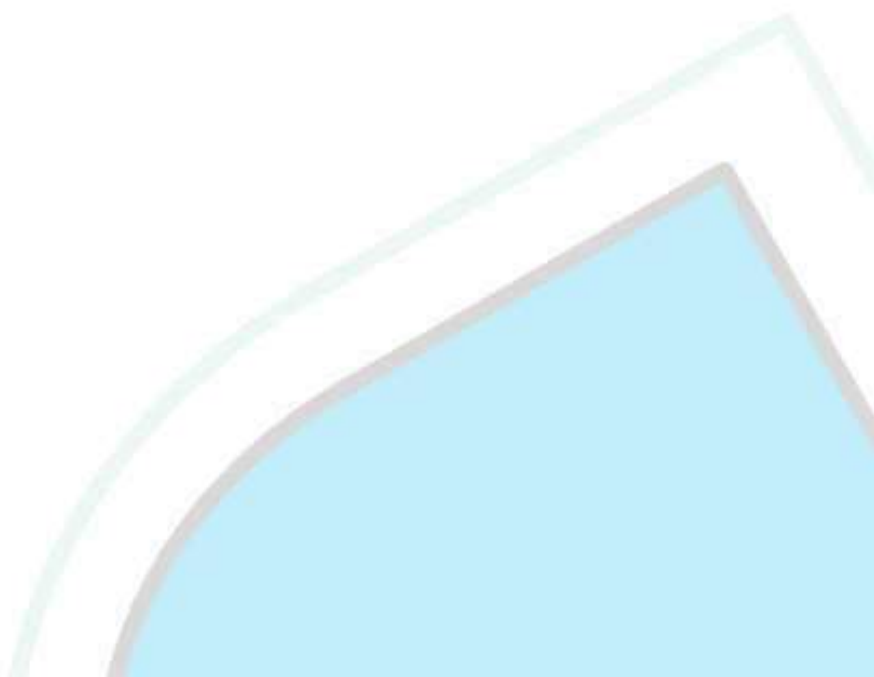
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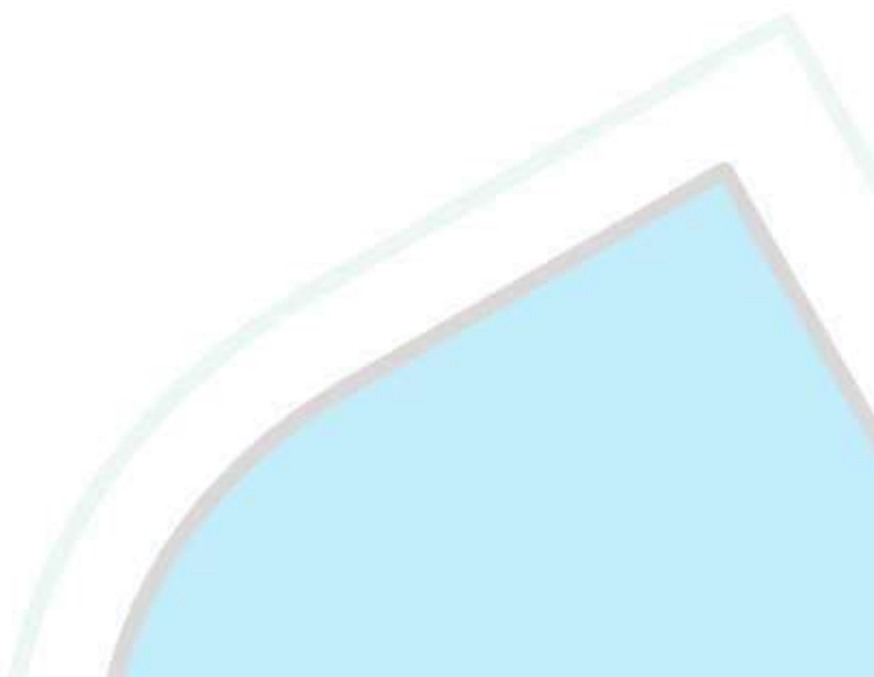
- End of Analysis Report -

**ภาคผนวก ณ-3**  
**ผลการวิเคราะห์คุณภาพน้ำทิ้ง**





ผลการวิเคราะห์คุณภาพน้ำทิ้งสำนักงาน (ระยะที่ 1)



## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PROJECT (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : OR-ORR JOINT VENTURE  
**ADDRESS** : 555 RASA TOWER, 12TH FLOOR, PHANOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10600  
**CONTACT INFORMATION** : TEL : 081 989 1394 e-mail : info@or-joint-venture.com  
**SAMPLING SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 19, 2024  
**SAMPLING TIME** : 09:55 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. JONITA SANGUAN  
**ANALYZED BY** : MISS JASAVIN BUNWONG

**RECEIVED DATE** : JANUARY 19, 2024  
**ANALYTICAL DATE** : JANUARY 19-25, 2024  
**REPORT NO.** : 2024-0007296  
**WORK NO.** : 2023-000503  
**ANALYSIS NO.** : 72-002047-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT SITE OFFICE T3440244-0001	DETECTION LIMIT
pH <sup>1</sup>	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4000- 41.0 AND 4060.0)	7.0 (21°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>2</sup>	mg/L	MEMBRANE FILTRATION METHOD (SM PART 5210.0 AND PART 4200-O-G)	ND	2.0
TOTAL SUSPENDED SOLIDS <sup>3</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	428	5.0
TOTAL KJELDAHL NITROGEN <sup>4</sup>	mg/L	IN-HOUSE METHOD (USE TIP WAS 001) (KJELDAHL METHOD) (SM PART 4600 N-ORG C)	80.3	15
FAT OIL AND GREASE <sup>5</sup>	mg/L	LIQUID-LIQUID PARTITION (GRAVIMETRIC METHOD) (SM PART 5620 B)	ND	5
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAY BROWN	

<sup>1</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>2</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>3</sup> : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

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

ND : NON-DETECTABLE

Rapat S.

(MRS. RYANAT SUTTANANTAWONG)  
LABORATORY SUPERVISOR

JANUARY 30, 2024

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- End of Analysis Report -

## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PROJECT (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : OR-ORR JOINT VENTURE  
**ADDRESS** : 555 RASA TOWER, 12TH FLOOR, PHANOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10600  
**CONTACT INFORMATION** : TEL : 081 989 1394 e-mail : info@or-joint-venture.com  
**SAMPLING SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 26, 2024  
**SAMPLING TIME** : 10:10 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. NAWANICH KLADANAKORN  
**ANALYZED BY** : MISS JASAVIN BUNWONG

**RECEIVED DATE** : FEBRUARY 26, 2024  
**ANALYTICAL DATE** : FEBRUARY 26-28, 2024  
**REPORT NO.** : 2024-0007296  
**WORK NO.** : 2023-000503  
**ANALYSIS NO.** : 72-002047-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT SITE OFFICE T3440244-0001	DETECTION LIMIT
pH <sup>1</sup>	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4000- 41.0 AND 4060.0)	8.2 (21°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>2</sup>	mg/L	MEMBRANE FILTRATION METHOD (SM PART 5210.0 AND PART 4200-O-G)	ND	2.0
TOTAL SUSPENDED SOLIDS <sup>3</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	110	5.0
TOTAL KJELDAHL NITROGEN <sup>4</sup>	mg/L	IN-HOUSE METHOD (USE TIP WAS 001) (KJELDAHL METHOD) (SM PART 4600 N-ORG C)	20.3	15
FAT OIL AND GREASE <sup>5</sup>	mg/L	LIQUID-LIQUID PARTITION (GRAVIMETRIC METHOD) (SM PART 5620 B)	ND	5
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAY BROWN	

<sup>1</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>2</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>3</sup> : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

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

ND : NON-DETECTABLE

Rapat S.

(MRS. RYANAT SUTTANANTAWONG)  
LABORATORY SUPERVISOR

FEBRUARY 29, 2024

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- End of Analysis Report -

## ANALYSIS REPORT

PROJECT NAME : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
CUSTOMER NAME : CP-CPH JOINT VENTURE  
ADDRESS : 555 RASA TOWER 11TH FLOOR, PHA-SOLYOTHI ROAD, CHUACHAI CHATICHAI BANGKOK 10900  
CONTACT INFORMATION : TEL : 021 889 1294 E-mail : info@cpjph.com  
SAMPLING SOURCE : SITE OFFICE  
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : MARCH 13, 2024  
SAMPLING TIME : 18:30 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR. ANUSAT SUATZEE  
ANALYZED BY : MISS ACHARIN BANGKONG

RECEIVED DATE : MARCH 15, 2024  
ANALYTICAL DATE : MARCH 15, 2024  
ISSUE DATE : MARCH 20, 2024  
REPORT NO. : 2024-02-0669  
WORK NO. : 2023-00363  
ANALYSIS NO. : T240415-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4500- H+ B AND 1000 B)	7.6 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O-01)	12.0	2.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRESSED AT 103 ± 0.5 °C (SM PART 2540 D)	19.4	5.0
TOTAL KJELDAHL NITROGEN *	mg/L	IN-HOUSE METHOD: LUNTPH WAS OUT KJELDAHL METHOD, SM PART 4500-N-01 C	16.4	15
FAT, OIL AND GREASE *	mg/L	LIQUID-LIQUID PARTITION-ORGANOMETRIC METHOD (SM PART 5520 B)	ND	5
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAY BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)

\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

\* : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATERS, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.SM : STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATERS, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

ND : NON-DETECTABLE

Pongpat S.

(MRS. PYPHAT SUTTANANTHAWONG)  
LABORATORY SUPERVISOR

MARCH 27, 2024

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- End of Analysis Report -

## ANALYSIS REPORT

PROJECT NAME : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
CUSTOMER NAME : CP-CPH JOINT VENTURE  
ADDRESS : 555 RASA TOWER 11TH FLOOR, PHA-SOLYOTHI ROAD, CHUACHAI CHATICHAI BANGKOK 10900  
CONTACT INFORMATION : TEL : 021 889 1294 E-mail : info@cpjph.com  
SAMPLING SOURCE : SITE OFFICE  
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : APRIL 19, 2024  
SAMPLING TIME : 18:30 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR. ANUSAT SUATZEE  
ANALYZED BY : MISS ACHARIN BANGKONG

RECEIVED DATE : APRIL 19, 2024  
ANALYTICAL DATE : APRIL 19, 2024  
ISSUE DATE : APRIL 20, 2024  
REPORT NO. : 2024-02-0671  
WORK NO. : 2023-00363  
ANALYSIS NO. : T240419-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4500- H+ B AND 1000 B)	7.4 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O-01)	10.4	2.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS (DRIED) AT 103 ± 0.5 °C (SM PART 2540 D)	11.0	5.0
TOTAL KJELDAHL NITROGEN *	mg/L	IN-HOUSE METHOD: LUNTPH WAS OUT KJELDAHL METHOD, SM PART 4500-N-01 C	34.8	15
FAT, OIL AND GREASE *	mg/L	LIQUID-LIQUID PARTITION-ORGANOMETRIC METHOD (SM PART 5520 B)	ND	5
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAY BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)

\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

\* : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATERS, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.SM : STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATERS, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

ND : NON-DETECTABLE

Pongpat S.

(MRS. PYPHAT SUTTANANTHAWONG)  
LABORATORY SUPERVISOR

APRIL 30, 2024

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## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : OPP-CH9 JOINT VENTURE  
**ADDRESS** : 333 RASA TOWER 1, 16TH FLOOR, PHANLOYTHIN ROAD, CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 989 1594 E-mail : ua@unitedanalystand.com  
**SAMPLING SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 17, 2024  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD** : 10240  
**SAMPLING BY** : MR TERAPONG SIKSAHANG  
**ANALYZED BY** : MISS AKSARIN BUNPONG  
**RECEIVED DATE** : MAY 17, 2024  
**ANALYTICAL DATE** : MAY 17-23, 2024  
**ISSUE DATE** : MAY 28, 2024  
**REPORT NO.** : 1004-000154  
**WORK NO.** : 2023-000612  
**ANALYSIS NO.** : T240513-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-IT B AND 8060 B)	7.6 (PH)	-
BIO-CHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5201 B AND PART 4500-C O)	28.8	20
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS (DRIED AT 103-105 °C) (SM PART 2540 D)	8.0	5.0
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: LIME TITRATION (KJELDAHL METHOD) (SM PART 4500-NH3 C)	24.0	15
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5530 B)	4	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

*Supat S.*  
(MISS RIYANT SITTAMANTUWONG)  
LABORATORY SUPERVISOR

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## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : OPP-CH9 JOINT VENTURE  
**ADDRESS** : 333 RASA TOWER 1, 16TH FLOOR, PHANLOYTHIN ROAD, CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 989 1594 E-mail : ua@unitedanalystand.com  
**SAMPLING SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 21, 2024  
**SAMPLING TIME** : 10:10 HOUR  
**SAMPLING METHOD** : 10240  
**SAMPLING BY** : MR. MWANCHIT KLAMBAKOH  
**ANALYZED BY** : MISS AKSARIN BUNPONG  
**RECEIVED DATE** : JUNE 21, 2024  
**ANALYTICAL DATE** : JUNE 21-27, 2024  
**ISSUE DATE** : JULY 1, 2024  
**REPORT NO.** : 2024-0000751  
**WORK NO.** : 2023-000613  
**ANALYSIS NO.** : T240620-0000

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-IT B AND 8060 B)	7.6 (PH)	-
BIO-CHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5201 B AND PART 4500-C O)	10.0	5.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS (DRIED AT 103-105 °C) (SM PART 2540 D)	10.0	5.0
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: LIME TITRATION (KJELDAHL METHOD) (SM PART 4500-NH3 C)	28.4	15
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5530 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
**ND** : NOT DETECTED

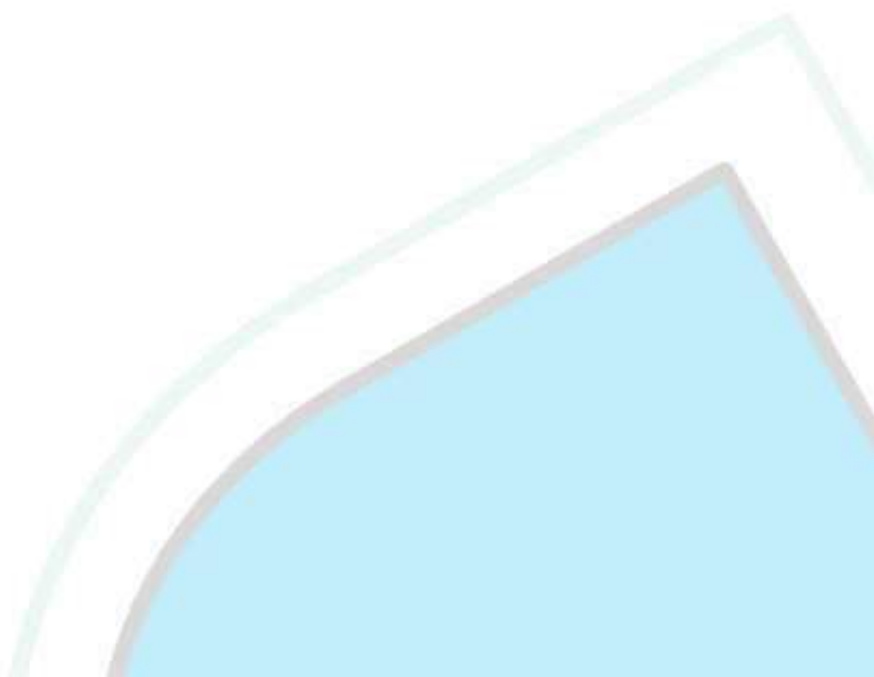
*Supat S.*  
(MISS RIYANT SITTAMANTUWONG)  
LABORATORY SUPERVISOR

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ผลการวิเคราะห์คุณภาพน้ำทิ้งสำนักงาน (ระยะที่ 2)



## ANALYSIS REPORT

PROJECT NAME : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
CUSTOMER NAME : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
ADDRESS : 555 RASA TOWER 11TH FLOOR, 501 PHANOLYOTIN 18 PHANOLYOTIN ROAD, CHATUCHAK CHATUCHAK, BANGKOK 10900

CONTACT INFORMATION : TEL: 084-343-6707 E-mail: uae@uaeconsultant.com

SAMPLE SOURCE : SITE OFFICE

SAMPLE TYPE : EFFLUENT

SAMPLING DATE : JANUARY 16, 2024

SAMPLING TIME : 09:00 HOUR

SAMPLING METHOD : GRAB

SAMPLING BY : MR. ADITHA SAENGUAN

ANALYZED BY : MISS KASAPORN BANGKONG

RECEIVED DATE : JANUARY 16, 2024

ANALYTICAL DATE : JANUARY 16-22, 2024

REPORT NO. : 2024-0007288

WORK NO. : F-2023-001873

ANALYSIS NO. : T240106-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH*	-	ELECTROMETRIC METHOD (AT 25°C) (SM PART 4006) H <sub>2</sub> O AND 100 B	7.2 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND*	mg/L	MERBRANE ELECTRODE METHOD (SM PART 5210 B) AND PART 4006-C (2)	63	20
TOTAL SUSPENDED SOLIDS*	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	63	50
TOTAL KJELDAHL NITROGEN*	mg/L	N-HOUR METHOD (SM PART 4600-NH <sub>4</sub> -L) METHOD (SM PART 4600-NH <sub>4</sub> -C)	224	15
FAT, OIL AND GREASE*	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5620-B)	ND	3
SAMPLE CONDITION	WATER'S COLOUR/TURBID SEDIMENT			
			YELLOW/CLAR BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)

\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

\* : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE DETERMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE DETERMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE

Rapol S.

(MISS PIRAWAT SUTTHAMATWONG)  
LABORATORY SUPERVISOR

JANUARY 30, 2024

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## ANALYSIS REPORT

PROJECT NAME : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
CUSTOMER NAME : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
ADDRESS : 555 RASA TOWER 11TH FLOOR, 501 PHANOLYOTIN 18 PHANOLYOTIN ROAD, CHATUCHAK CHATUCHAK, BANGKOK 10900

CONTACT INFORMATION : TEL: 084-343-6707 E-mail: uae@uaeconsultant.com

SAMPLE SOURCE : SITE OFFICE

SAMPLE TYPE : EFFLUENT

SAMPLING DATE : FEBRUARY 16, 2024

SAMPLING TIME : 09:20 HOUR

SAMPLING METHOD : GRAB

SAMPLING BY : MR. NAWACHAN KLABWACHON

ANALYZED BY : MISS ADITHA THASUWONG

RECEIVED DATE : FEBRUARY 16, 2024

ANALYTICAL DATE : FEBRUARY 16-23, 2024

ISSUE DATE : FEBRUARY 28, 2024

REPORT NO. : 2024-0016653

WORK NO. : F-2023-001873

ANALYSIS NO. : T240106-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH*	-	ELECTROMETRIC METHOD (AT 25°C) (SM PART 4006) H <sub>2</sub> O AND 100 B	8.2 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND*	mg/L	MERBRANE ELECTRODE METHOD (SM PART 5210 B) AND PART 4006-C (2)	ND	20
TOTAL SUSPENDED SOLIDS*	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	ND	50
TOTAL KJELDAHL NITROGEN*	mg/L	N-HOUR METHOD (SM PART 4600-NH <sub>4</sub> -L) METHOD (SM PART 4600-NH <sub>4</sub> -C)	< LOD	15
FAT, OIL AND GREASE*	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5620-B)	ND	3
SAMPLE CONDITION	WATER'S COLOUR/TURBID SEDIMENT			
			YELLOW/CLAR BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)

\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

\* : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE DETERMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE DETERMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE

< LOD : LIMIT OF QUANTIFICATION (TOTAL KJELDAHL NITROGEN  $\geq 15$  AND  $\leq 5.0$  mg/L)

Rapol S.

(MISS PIRAWAT SUTTHAMATWONG)  
LABORATORY SUPERVISOR

FEBRUARY 28, 2024

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**LAE** United Analyst and Engineering Consultant Co., Ltd.  
350 Udomsak 41, Sukhumvit Road, Bangkok, Thailand 10110  
Tel: 02-751-7517 Fax: 02-751-7518 Email: lae@lueconsultant.com

**ANALYSIS REPORT**

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, SOI PHAOL VOTORN 19 PHAOL VOTORN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10150

**CONTACT INFORMATION** : TEL : 094 343 5707 e-mail : lae@lueconsultant.com  
**SAMPLE SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 08:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. ANUSAT SURDICE  
**ANALYZED BY** : MISS ARIYA THAMARON

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH <sup>1</sup>	-	ELECTROMETRIC METHOD (AT 25°C) SM PART 4000-41 B AND 9200 B	8.4 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>2</sup>	mg/L	MENSHANE ELECTRODE METHOD (SM PART 5210 B AND PART 4000 O <sub>2</sub> )	4.2	2.0
TOTAL SUSPENDED SOLIDS <sup>3</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103 ± 5 °C (SM PART 2540 D)	ND	5.0
TOTAL KJELDAHL NITROGEN <sup>4</sup>	mg/L	KJELDAHL METHOD (USE TP WAS 001 KJELDAHL METHOD) SM PART 4000-NH <sub>3</sub> C	0.4	15
FAT, OIL AND GREASE <sup>5</sup>	mg/L	LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5620 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAR BROWN	

<sup>1</sup> : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>2</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>3</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE

*Report S.*

MISS PIYANAT SITTAMANUWONG  
LABORATORY SUPERVISOR

MARCH 27, 2024

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**LAE** United Analyst and Engineering Consultant Co., Ltd.  
350 Udomsak 41, Sukhumvit Road, Bangkok, Thailand 10110  
Tel: 02-751-7517 Fax: 02-751-7518 Email: lae@lueconsultant.com

**ANALYSIS REPORT**

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, SOI PHAOL VOTORN 19 PHAOL VOTORN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10150

**CONTACT INFORMATION** : TEL : 094 343 5707 e-mail : lae@lueconsultant.com  
**SAMPLE SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 10, 2024  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. ANUSAT SURDICE  
**ANALYZED BY** : MISS ARIYA THAMARON

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH <sup>1</sup>	-	ELECTROMETRIC METHOD (AT 25°C) SM PART 4000-41 B AND 9200 B	7.4 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>2</sup>	mg/L	MENSHANE ELECTRODE METHOD (SM PART 5210 B AND PART 4000 O <sub>2</sub> )	2.4	2.0
TOTAL SUSPENDED SOLIDS <sup>3</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103 ± 5 °C (SM PART 2540 D)	ND	5.0
TOTAL KJELDAHL NITROGEN <sup>4</sup>	mg/L	KJELDAHL METHOD (USE TP WAS 001 KJELDAHL METHOD) SM PART 4000-NH <sub>3</sub> C	< LOQ	15
FAT, OIL AND GREASE <sup>5</sup>	mg/L	LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5620 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAR GREEN	

<sup>1</sup> : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>2</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>3</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE  
**<LOQ** : <LIMIT OF QUANTIFICATION (TOTAL KJELDAHL NITROGEN ± 15 AND <5.0 mg/L)

*Report S.*

MISS PIYANAT SITTAMANUWONG  
LABORATORY SUPERVISOR

APRIL 30, 2024

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End of Analysis Report -

## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICES (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 3, 11TH FLOOR, SOI PHRAHAT YOTHIN 19 PHRAEYOTHIN ROAD, CHATUCHAK, CHATUCHAK, BANGKOK 10900  
**CONTACT INFORMATION** : TEL: 094 343 6707 e-mail: uae@uaeconsultant.com  
**SAMPLE SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 17, 2024  
**SAMPLING TIME** : 10:10 HOUR  
**SAMPLING METHOD** : GPAB  
**SAMPLING BY** : MR TERAWONG SUTTHAMUNING  
**ANALYZED BY** : MISS APHA THABUDON  
**RECEIVED DATE** : MAY 17, 2024  
**ANALYTICAL DATE** : MAY 17-23, 2024  
**ISSUE DATE** : MAY 28, 2024  
**REPORT NO.** : 1024-040956  
**WORK NO.** : 2024-011073  
**ANALYSIS NO.** : 12665315-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4300 (H <sup>+</sup> B AND 500 B)	7.6 (29°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 520 B AND PART 4000-O <sub>2</sub> )	5.8	2.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 105-105 °C (SM PART 2540 D)	ND	50
TOTAL KJELDAHL NITROGEN	mg/L	KJELDAHL METHOD (USE THAWASERT KJELDAHL METHOD) SM PART 4800-Nitrogen C	8.6	15
PHOSPHORUS	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5610 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SCOPENT			YELLOW/CLAR BROWN	

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE

*Sapal S.*  
(MISS PIPAT SUTTHAMUNING)  
LABORATORY SUPERVISOR

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End of Analysis Report -

## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICES (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 3, 11TH FLOOR, SOI PHRAHAT YOTHIN 19 PHRAEYOTHIN ROAD, CHATUCHAK, CHATUCHAK, BANGKOK 10900  
**CONTACT INFORMATION** : TEL: 094 343 6707 e-mail: uae@uaeconsultant.com  
**SAMPLE SOURCE** : SITE OFFICE  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 21, 2024  
**SAMPLING TIME** : 10:25 HOUR  
**SAMPLING METHOD** : GPAB  
**SAMPLING BY** : MR MAWCHAI KJABANON  
**ANALYZED BY** : MISS APHA THABUDON  
**RECEIVED DATE** : JUNE 21, 2024  
**ANALYTICAL DATE** : JUNE 21-27, 2024  
**ISSUE DATE** : JUL 2, 2024  
**REPORT NO.** : 1024-039711  
**WORK NO.** : 2024-011873  
**ANALYSIS NO.** : 12665911-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4300 (H <sup>+</sup> B AND 500 B)	7.6 (29°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 520 B AND PART 4000-O <sub>2</sub> )	3.0	2.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 105-105 °C (SM PART 2540 D)	ND	50
TOTAL KJELDAHL NITROGEN	mg/L	KJELDAHL METHOD (USE THAWASERT KJELDAHL METHOD) SM PART 4800-Nitrogen C	ND	15
OIL AND GREASE	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5610 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SCOPENT			YELLOW/CLAR BROWN	

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>TH</sup> EDITION, 2023.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>TH</sup> EDITION, 2023.  
**ND** : NOT DETECTED

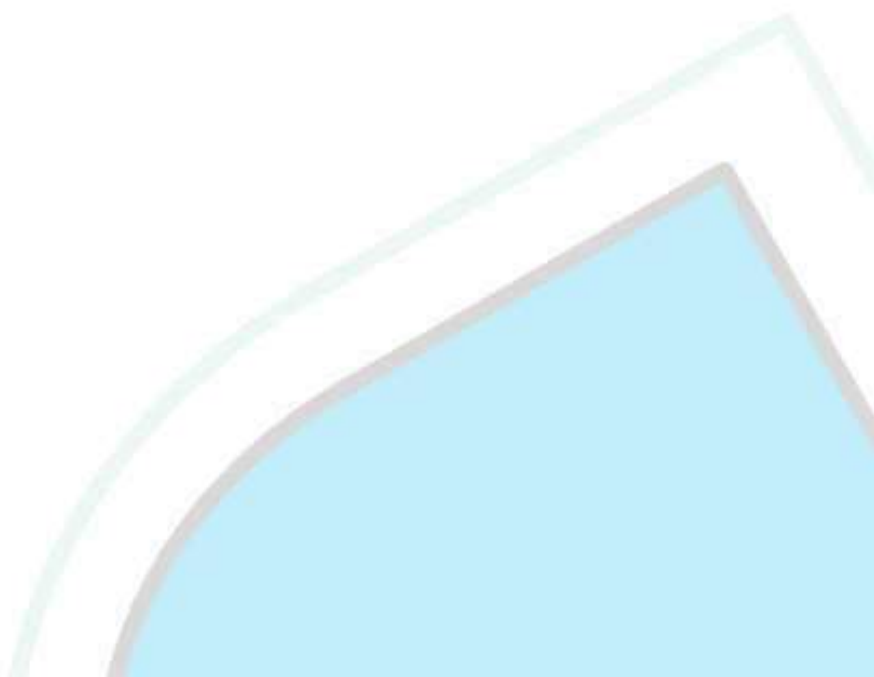
*Sapal S.*  
(MISS PIPAT SUTTHAMUNING)  
LABORATORY SUPERVISOR

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วัสดุอุปกรณ์ (ระยะที่ 1)







United Analyst and Engineering Consultant Co., Ltd.  
355, Laksam Road, Bangkok, Thailand 10100  
Tel: 02-263-3818 Fax: 02-263-3800 Email: info@uaeconsultant.com

TESTING  
No. 0001

## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CPE-JOINT VENTURE  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, PHANOLYETHIN ROAD, CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 02-263-3818 E-mail : info@uaeconsultant.com  
**SAMPLING SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 19, 2024  
**SAMPLING TIME** : JANUARY 19-25, 2024  
**SAMPLING METHOD** : 14-20 HOUR  
**SAMPLING BY** : MR. KIRITA SANGUAN  
**ANALYZED BY** : MISS AKSARIN BUNPONG  
**RECEIVED DATE** : JANUARY 19, 2024  
**ANALYTICAL DATE** : JANUARY 19-25, 2024  
**REPORT NO.** : 2024-0001297  
**WORK NO.** : 2023-003833  
**ANALYSIS NO.** : 72442187-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH*	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4000 AT 0 AND 10.00)	8.9 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND*	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5201 B AND PART 4000.0)	4.1	2.0
TOTAL SUSPENDED SOLIDS*	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540.0)	8.8	8.0
TOTAL KALDOHL NITROGEN*	mg/L	IN-HOUSE METHOD LINE TP WAS 501 (KJELDAHL METHOD) (SM PART 4000 MS-C)	0.3	1.5
FAT OIL AND GREASE*	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5630.0)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLAR BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

\* : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 21<sup>ST</sup> EDITION, 2017

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 21<sup>ST</sup> EDITION, 2017

ND : NON-DETECTABLE

*Prasert S.*

(MR. PRASERT SUTTHANANTAWONG)  
LABORATORY SUPERVISOR

JANUARY 31, 2024

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United Analyst and Engineering Consultant Co., Ltd.  
355, Laksam Road, Bangkok, Thailand 10100  
Tel: 02-263-3818 Fax: 02-263-3800 Email: info@uaeconsultant.com

TESTING  
No. 0001

## ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CPE-JOINT VENTURE  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, PHANOLYETHIN ROAD, CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 02-263-3818 E-mail : info@uaeconsultant.com  
**SAMPLING SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 16, 2024  
**SAMPLING TIME** : FEBRUARY 16-23, 2024  
**SAMPLING METHOD** : 14-20 HOUR  
**SAMPLING BY** : MR. KIRITA SANGUAN  
**ANALYZED BY** : MISS AKSARIN BUNPONG  
**RECEIVED DATE** : FEBRUARY 16, 2024  
**ANALYTICAL DATE** : FEBRUARY 16-23, 2024  
**REPORT NO.** : 2024-003655  
**WORK NO.** : 2023-003833  
**ANALYSIS NO.** : 72442187-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH*	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4000 AT 0 AND 10.00)	7.4 (20°C)	-
BIOCHEMICAL OXYGEN DEMAND*	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5201 B AND PART 4000.0)	0.7	2.0
TOTAL SUSPENDED SOLIDS*	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540.0)	9.6	8.0
TOTAL KALDOHL NITROGEN*	mg/L	IN-HOUSE METHOD LINE TP WAS 501 (KJELDAHL METHOD) (SM PART 4000 MS-C)	0.5	1.5
FAT OIL AND GREASE*	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5630.0)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

\* : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 21<sup>ST</sup> EDITION, 2017

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 21<sup>ST</sup> EDITION, 2017

ND : NON-DETECTABLE

*Prasert S.*

(MR. PRASERT SUTTHANANTAWONG)  
LABORATORY SUPERVISOR

FEBRUARY 25, 2024

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\* THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.

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End of Analysis Report -

### ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CP-CPH JOINT VENTURE  
**ADDRESS** : 555 BANGKOK TOWER, 11TH FLOOR, PHANFONGTHERA ROAD, CHATUCHAK DISTRICT, BANGKOK 10900  
**CONTACT INFORMATION** : TEL: 021 989 1394 E-MAIL: info@uaeconsultant.com  
**SAMPLING SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. ANUSAT SURYADEE  
**ANALYZED BY** : MISS ANUSAT SURYADEE

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT STOCK YARD TRANS-0002	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4500 H+ B AND 100 B	5.7 (25°C)	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-C O)	0.8	2.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 105 ± 5 °C (SM PART 2540 D)	10.8	5.0
TOTAL KJELDAHL NITROGEN *	mg/L	IN-HOUSE METHOD USE TO WASHER (KJELDAHL METHOD) SM PART 4500-NRG C	0.1	1.5
FAT, OIL AND GREASE *	mg/L	LIQUID-LIQUID PARTITION-ORGANOMETRIC METHOD (SM PART 3520 B)	ND	1
<b>SAMPLE CONDITION</b> WATERS COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)  
 \* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
 \* : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE

*Piyapol S.*  
 (MR. PIYAPOL SUTTHANANTAWONG)  
 LABORATORY SUPERVISOR

### ANALYSIS REPORT

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : CP-CPH JOINT VENTURE  
**ADDRESS** : 555 BANGKOK TOWER, 11TH FLOOR, PHANFONGTHERA ROAD, CHATUCHAK DISTRICT, BANGKOK 10900  
**CONTACT INFORMATION** : TEL: 021 989 1394 E-MAIL: info@uaeconsultant.com  
**SAMPLING SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 10, 2024  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. ANUSAT SURYADEE  
**ANALYZED BY** : MISS ANUSAT SURYADEE

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT STOCK YARD TRANS-0002	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4500 H+ B AND 100 B	7.2 (25°C)	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-C O)	11.8	5.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 105 ± 5 °C (SM PART 2540 D)	8.3	5.0
TOTAL KJELDAHL NITROGEN *	mg/L	IN-HOUSE METHOD USE TO WASHER (KJELDAHL METHOD) SM PART 4500-NRG C	24.0	1.5
FAT, OIL AND GREASE *	mg/L	LIQUID-LIQUID PARTITION-ORGANOMETRIC METHOD (SM PART 3520 B)	ND	1
<b>SAMPLE CONDITION</b> WATERS COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

\* : ISO/IEC 17025 ACCREDITED BY THE INDUSTRIAL STANDARDS INSTITUTE (TISI)  
 \* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
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**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE

*Piyapol S.*  
 (MR. PIYAPOL SUTTHANANTAWONG)  
 LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : EPC-JOB JOINT VENTURE  
**ADDRESS** : 555 RASA TOWER 1, 10TH FLOOR, PHANFLOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10000  
**CONTACT INFORMATION** : TEL : 01 993 1596 E-mail : uae@uacconsultant.com  
**SAMPLING SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 17, 2024  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. TEERAPONG SOMKHAMWANG  
**ANALYZED BY** : MISS ASSABIN BUNKONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			STOCK YARD	STOCK YARD	
pH	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-H+D AND 800 B)	7.3 (25°C)	7.3 (25°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-OIG)	27.4	27.4	20
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 105-105 °C (SM PART 2540 D)	9.8	9.8	10
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD USE TPWA5001 KJELDAHL METHOD (SM PART 4500-Norg C)	22.8	22.8	15
FAT OIL AND GREASE	mg/L	LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5600 B)	4	4	3
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID					
SEDIMENT					
YELLOW/CLAY BROWN					

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

*Papad S.*

(MISS PIPANAT SITTAMAWITWONG)  
 LABORATORY SUPERVISOR

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## ANALYSIS REPORT

**PROJECT NAME** : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : EPC-JOB JOINT VENTURE  
**ADDRESS** : 555 RASA TOWER 1, 10TH FLOOR, PHANFLOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10000  
**CONTACT INFORMATION** : TEL : 01 993 1596 E-mail : uae@uacconsultant.com  
**SAMPLING SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 21, 2024  
**SAMPLING TIME** : 13:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. NAWANICH KLAERAKHON  
**ANALYZED BY** : MISS ASSABIN BUNKONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			STOCK YARD	STOCK YARD	
pH	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-H+D AND 800 B)	7.3 (25°C)	7.3 (25°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-OIG)	12.8	12.8	20
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 105-105 °C (SM PART 2540 D)	6.3	6.3	10
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD USE TPWA5001 KJELDAHL METHOD (SM PART 4500-Norg C)	17.2	17.2	15
Oil AND GREASE	mg/L	LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5600 B)	ND	ND	3
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID					
SEDIMENT					
YELLOW/CLAY BROWN					

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
**ND** : NOT DETECTED

*Papad S.*

(MISS PIPANAT SITTAMAWITWONG)  
 LABORATORY SUPERVISOR

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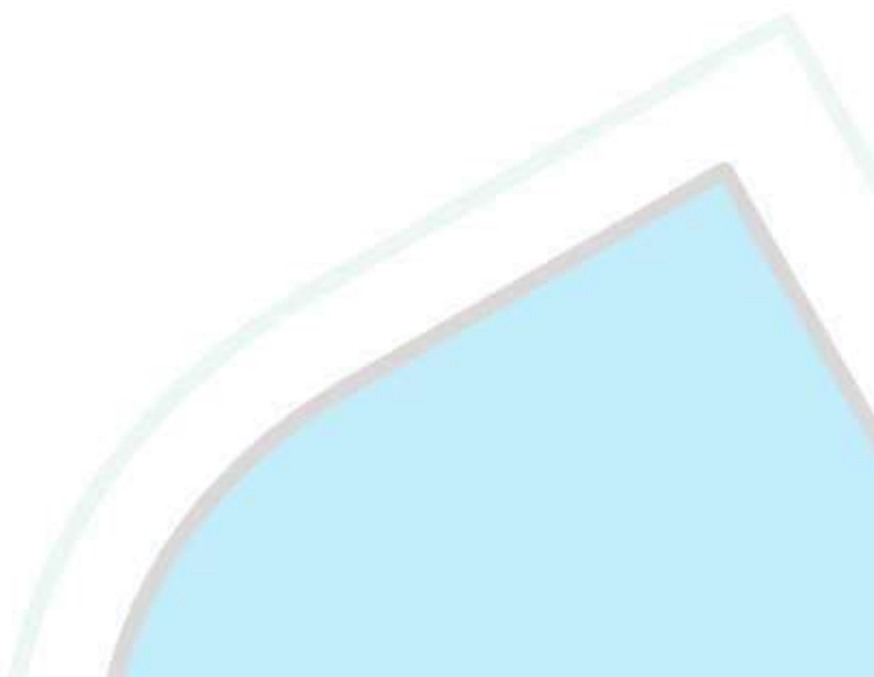


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วัสดุอุปกรณ์ (ระยะที่ 2)





**LAE** United Analyst and Engineering Consultant Co., Ltd.  
35a Udamakul 41, Suburmit Road Bangkok, Thailand 10140  
Tel 02763 3828 Fax 02763 3800 www.laeconsultant.com E-mail lae@laeconsultant.com

**ANALYSIS REPORT**

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, 501 PHANLOK YOTHIN 19 PHANLOK YOTHIN ROAD, CHATUCHAK DISTRICT, BANGKOK 10900

**CONTACT INFORMATION** : TEL : 064 343 6707 E-mail : lae@laeconsultant.com  
**SAMPLE SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 10, 2024  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. ADIETA SAKSANGKUN  
**ANALYZED BY** : MISS ANIYA THIRAKUN

**RECEIVED DATE** : JANUARY 10, 2024  
**ANALYTICAL DATE** : JANUARY 10-15, 2024  
**REPORT NO.** : 2024-0307289  
**WORK NO.** : 2023-001673  
**ANALYSIS NO.** : T24060306-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			STOCK YARD	T24060306-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT 25°C) (SM PART 4500-H <sub>+</sub> B AND 1005 B)	5.8 (ATC)		-
BIOCHEMICAL OXYGEN DEMAND <sup>b</sup>	mg/L	MERBROME ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O <sub>2</sub> G)	3.8		2.0
TOTAL SUSPENDED SOLIDS <sup>c</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103 ± 0.5 °C (SM PART 2540 D)	ND		50
TOTAL KJELDAHL NITROGEN <sup>d</sup>	mg/L	N-HOUSE METHOD (SM PART 4500-NH <sub>3</sub> C)	102		15
FAT OIL AND GREASE <sup>e</sup>	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5530 E)	ND		3
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBIDITY			YELLOW/CLAR		
SECURITY			BIOHAZ		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE

*Pongpat S.*

(MISS PIRYAT SUTTANAUWONG)  
LABORATORY SUPERVISOR

JANUARY 30, 2024

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**LAE** United Analyst and Engineering Consultant Co., Ltd.  
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Tel 02763 3828 Fax 02763 3800 www.laeconsultant.com E-mail lae@laeconsultant.com

**ANALYSIS REPORT**

**PROJECT NAME** : BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, 501 PHANLOK YOTHIN 19 PHANLOK YOTHIN ROAD, CHATUCHAK DISTRICT, BANGKOK 10900

**CONTACT INFORMATION** : TEL : 064 343 6707 E-mail : lae@laeconsultant.com  
**SAMPLE SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 16, 2024  
**SAMPLING TIME** : 12:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. NAWANICH KLABSANGKUN  
**ANALYZED BY** : MISS ANIYA THIRAKUN

**RECEIVED DATE** : FEBRUARY 16, 2024  
**ANALYTICAL DATE** : FEBRUARY 16-23, 2024  
**ISSUE DATE** : FEBRUARY 28, 2024  
**REPORT NO.** : 2024-010654  
**WORK NO.** : 2023-001873  
**ANALYSIS NO.** : T24060303-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			STOCK YARD	T24060303-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT 25°C) (SM PART 4500-H <sub>+</sub> B AND 1005 B)	7.5 (ATC)		-
BIOCHEMICAL OXYGEN DEMAND <sup>b</sup>	mg/L	MERBROME ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O <sub>2</sub> G)	2.2		2.0
TOTAL SUSPENDED SOLIDS <sup>c</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103 ± 0.5 °C (SM PART 2540 D)	ND		50
TOTAL KJELDAHL NITROGEN <sup>d</sup>	mg/L	N-HOUSE METHOD (SM PART 4500-NH <sub>3</sub> C)	811		15
FAT OIL AND GREASE <sup>e</sup>	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5530 E)	ND		3
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBIDITY			YELLOW/CLAR		
SECURITY			BIOHAZ		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATERS AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE

*Pongpat S.*

(MISS PIRYAT SUTTANAUWONG)  
LABORATORY SUPERVISOR

FEBRUARY 28, 2024

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# ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPAC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, 501 PHAKDIYOTHIN 19 PHAKDIYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900

**CONTACT INFORMATION** : TEL : 064 343 6707 E-mail : lae@unitedanalyst.com

**SAMPLE SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD** : QLAB  
**SAMPLING BY** : MR. ANUSANT SUAYOEE  
**ANALYZED BY** : MISS ARIYA THASADOM

**RECEIVED DATE** : MARCH 15, 2024  
**ANALYTICAL DATE** : MARCH 15-17, 2024  
**ISSUE DATE** : MARCH 26, 2024  
**REPORT NO.** : 2524-002-9568  
**WORK NO.** : 2523-003-8273  
**ANALYSIS NO.** : T240458-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT 25°C) (SM PART 4500-4) (F B AND 900-B)	4.2 (25°C)	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5200-B AND PART 4500-O-C)	7.8	2.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540-D)	8.4	5.0
TOTAL KIELOHVAL NITROGEN *	mg/L	8-HOUR METHOD: UAC TO WASHOON (YELLOWAL METHOD) (SM PART 4000-NORG C)	8.8	1.5
FAT OIL AND GREASE *	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520-B)	4	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SOLVENT			YELLOW/CLEAR NONE	

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
 \* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
 \* : VERIFIED BY OUR LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WPC, 23<sup>rd</sup> EDITION, 2017.  
 SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WPC, 23<sup>rd</sup> EDITION, 2017.

Piyapol S.

(MISS PIVANAT SITTANANTHAWONG)  
 LABORATORY SUPERVISOR

MARCH 27, 2024

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# ANALYSIS REPORT

**PROJECT NAME** : BANGKOK - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPAC INTERNATIONAL PETROLEUM SERVICE (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 RASA TOWER 11TH FLOOR, 501 PHAKDIYOTHIN 19 PHAKDIYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900

**CONTACT INFORMATION** : TEL : 064 343 6707 E-mail : lae@unitedanalyst.com

**SAMPLE SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 10, 2024  
**SAMPLING TIME** : 13:20 HOUR  
**SAMPLING METHOD** : QLAB  
**SAMPLING BY** : MR. ANUSANT SUAYOEE  
**ANALYZED BY** : MISS ARIYA THASADOM

**RECEIVED DATE** : APRIL 15, 2024  
**ANALYTICAL DATE** : APRIL 16-30, 2024  
**ISSUE DATE** : APRIL 30, 2024  
**REPORT NO.** : 2524-002-9568  
**WORK NO.** : 2523-003-8273  
**ANALYSIS NO.** : T240458-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT 25°C) (SM PART 4500-4) (F B AND 900-B)	8.6 (25°C)	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5200-B AND PART 4500-O-C)	7.2	2.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540-D)	5.8	5.0
TOTAL KIELOHVAL NITROGEN *	mg/L	8-HOUR METHOD: UAC TO WASHOON (YELLOWAL METHOD) (SM PART 4000-NORG C)	10.4	1.5
FAT OIL AND GREASE *	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520-B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SOLVENT			YELLOW/CLEAR NONE	

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
 \* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
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IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WPC, 23<sup>rd</sup> EDITION, 2017.  
 SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WPC, 23<sup>rd</sup> EDITION, 2017.

Piyapol S.

(MISS PIVANAT SITTANANTHAWONG)  
 LABORATORY SUPERVISOR

APRIL 30, 2024

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## ANALYSIS REPORT

**PROJECT NAME** : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICES (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 PASA TOWER 11TH FLOOR, SOI PHANADYOTHIN 19 PHANADYOTHIN ROAD, CHATUCHAK CHAIYACHULAK

**CONTACT INFORMATION** : BANGKOK 10660  
TEL : 024 343 0707 e-mail : uac@uacconsultant.com

**SAMPLE SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 17, 2024  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. TEERADONG SRIWANNING  
**ANALYZED BY** : MISS ARISA THIRASORN

**RECEIVED DATE** : MAY 17, 2024  
**ANALYTICAL DATE** : MAY 17-27, 2024  
**ISSUE DATE** : MAY 28, 2024  
**REPORT NO.** : 2024-09-0267  
**WORK NO.** : 2023-012873  
**ANALYSIS NO.** : 72445515-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4000-41 B AND 1000 B)	8.4 (PTC)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5200 B AND PART 4000-010)	54	20
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103 ± 5 °C (SM PART 2540 D)	ND	50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD (MULTI-STEP WAS 301 KJELDAHL METHOD) (SM PART 4000-Norg C)	ND	15
FAecal COLIFORM BACTERIA	mpn	LIQUID-LIQUID, PHATTIKUN-GRANIMETRIC METHOD (SM PART 5000 D)	ND	3
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLAY	
SCENT			BROWN	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
ND : NON-DETECTABLE

*Piyapol S.*  
(MISS RYANAT SUTTANAWITHONG)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : BANGKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE  
**CUSTOMER NAME** : SINOPEC INTERNATIONAL PETROLEUM SERVICES (THAILAND) COMPANY LIMITED  
**ADDRESS** : 555 PASA TOWER 11TH FLOOR, SOI PHANADYOTHIN 19 PHANADYOTHIN ROAD, CHATUCHAK CHAIYACHULAK

**CONTACT INFORMATION** : BANGKOK 10660  
TEL : 024 343 0707 e-mail : uac@uacconsultant.com

**SAMPLE SOURCE** : STOCK YARD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 21, 2024  
**SAMPLING TIME** : 11:15 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. UVAICHAI KLASANNICH  
**ANALYZED BY** : MISS ARISA THIRASORN

**RECEIVED DATE** : JUNE 21, 2024  
**ANALYTICAL DATE** : JUNE 21-27, 2024  
**ISSUE DATE** : JULY 2, 2024  
**REPORT NO.** : 2024-09-0713  
**WORK NO.** : 2023-001873  
**ANALYSIS NO.** : 72445515-0002

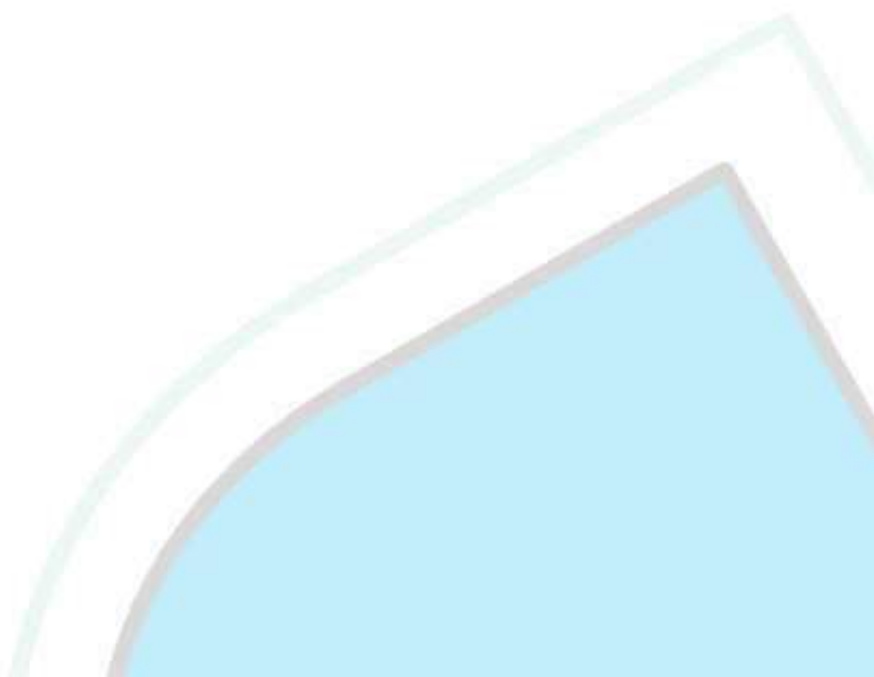
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD (AT SITE) (SM PART 4000-41 B AND 1000 B)	7.0 (PTC)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5200 B AND PART 4000-010)	5.0	20
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103 ± 5 °C (SM PART 2540 D)	ND	50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD (MULTI-STEP WAS 301 KJELDAHL METHOD) (SM PART 4000-Norg C)	5.0	15
OIL AND GREASE	mg/L	LIQUID-LIQUID, PHATTIKUN-GRANIMETRIC METHOD (SM PART 5000 D)	3	3
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLAY	
SCENT			BROWN	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
ND : NOT DETECTED

*Piyapol S.*  
(MISS RYANAT SUTTANAWITHONG)  
LABORATORY SUPERVISOR



**ภาคผนวก ณ-4**  
**เอกสารขึ้นทะเบียนห้องปฏิบัติการ**









ลำดับ	สารเคมี	วิธีการ
36	Oil & Grease	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2)</sup> 2) Solvent Extraction Method <sup>3)</sup>
37	Oil	Fluorimetric Method <sup>4)</sup>
38	Phenols	1) Distillation, Chloroform Extraction Method <sup>5)</sup> 2) Distillation, Direct Photometric Method <sup>6)</sup>
39	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>7)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>8)</sup>
40	Sulfide	1) Iodometric Method <sup>9)</sup> 2) Mercury Ion Method <sup>10)</sup>
41	Temperature	Laboratory and Field Methods <sup>11)</sup>
42	Total Dissolved Solids	Dried at 180 °C <sup>12)</sup>
43	Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method <sup>13)</sup>
44	Total Suspended Solids	Dried at 155-165 °C <sup>14)</sup>
45	Trivalent Chromium	1) Digestion, Direct Air-Acetylene Flame Method, Colorimetric Method, Calculation <sup>15)</sup> 2) Digestion, Inductively Coupled Plasma Method, Colorimetric Method, Calculation <sup>16)</sup>
46	Urea	1) Digestion, Direct Air-Acetylene Flame Method <sup>17)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>18)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>19)</sup>

#### สารเคมีจาก 126 รายการ

ลำดับ	สารเคมี	วิธีการ
1	Acetophenone	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>20)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>21)</sup>
2	Acrylonitrile	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>22)</sup>
3	Albin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>23)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>24)</sup>

4 Acetophenone...

ลำดับ	สารเคมี	วิธีการ
4	Anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>25)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>26)</sup>
5	Anthrone	Digestion, Inductively Coupled Plasma Method <sup>27)</sup>
6	Asenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>28)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>29)</sup>
7	Atazene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>30)</sup>
8	Beryll	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>31)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>32)</sup>
9	Benzaldehyde	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>33)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>34)</sup>
10	Benzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>35)</sup>
11	Benzobenzofuran	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>36)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>37)</sup>
12	Benzofuranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>38)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>39)</sup>
13	Benzocyclobutene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>40)</sup>
14	Benzocyclopentadiene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>42)</sup>

15 Benzocyclopentadiene...

ลำดับ	สารเคมี	วิธีการ
15	Benzocyclopentadiene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>43)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>44)</sup>
16	Benzilium	Digestion, Inductively Coupled Plasma Method <sup>45)</sup>
17	Benzobenzofuran	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>46)</sup>
18	Benzobenzofuranthene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>47)</sup>
19	Benzobenzofuranthene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>48)</sup>
20	Benzofuran	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>49)</sup>
21	Bisphenol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>50)</sup>
22	Bisyl benyl propylate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>51)</sup>
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method <sup>52)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>53)</sup>
24	Cetaphene	3) Digestion, Inductively Coupled Plasma Method <sup>54)</sup>
25	Carbon disulfide	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>55)</sup>
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>56)</sup>
27	Chlorides	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>57)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>58)</sup>
28	p-Chloraniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>59)</sup>
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>60)</sup>

30 Chlorobenzene...

ลำดับ	สารเคมี	วิธีการ
30	Chlorobenzonitrile	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>61)</sup>
31	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>62)</sup>
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>63)</sup>
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method <sup>64)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>65)</sup>
34	Chromium (II)	3) Digestion, Inductively Coupled Plasma Method <sup>66)</sup>
35	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method, Colorimetric Method, Calculation <sup>67)</sup> 2) Digestion, Inductively Coupled Plasma Method, Colorimetric Method, Calculation <sup>68)</sup>
36	Chrysene	1) Extraction, Air-Acetylene Flame Method <sup>69)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>70)</sup>
37	Cyanide	1) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>71)</sup> 2) Distillation, Colorimetric Method <sup>72)</sup>
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>73)</sup>
39	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>74)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>75)</sup>
40	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>76)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>77)</sup>
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>78)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>79)</sup>

42 Dinitrochlorobenzene...





ลำดับ	สารเคมี	วิธีการตรวจ
96	Polychlorinated Biphenyls - PCB 101a - PCB 1221 - PCB 1232 - PCB 1262 - PCB 1348 - PCB 1254 - PCB 1340	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>10</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
98	pH	Electrometric Method <sup>10</sup>
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>10</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
100	Phenol	1) Distillation, Chromatographic Extraction Method <sup>10</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>10</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>10</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>10</sup>
103	Silver	Digestion, Inductively Coupled Plasma Method <sup>10</sup>
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup>

ลำดับ	สารเคมี	วิธีการตรวจ
108	Xenophene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>10</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
109	Tri-C <sub>10</sub> -C <sub>12</sub>	1) Purge and Trap, Gas Chromatographic Method <sup>10</sup> <sup>10</sup> 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
110	Tri-C <sub>14</sub> -C <sub>16</sub>	Separately Purge and Trap Gas Chromatographic Method <sup>10</sup>
111	Tri-C <sub>18</sub> -C <sub>20</sub>	Separately Purge and Trap Gas Chromatographic Method <sup>10</sup>
112	2,4-Dichlorophenol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
113	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
115	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
116	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
119	Xenobenzene	Digestion, Inductively Coupled Plasma Method <sup>10</sup>
120	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
121	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
122	vinylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
123	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup> <sup>10</sup> <sup>10</sup>

ลำดับ	สารเคมี	วิธีการตรวจ
124	p-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
125	Xylene (Total)	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>10</sup>
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>10</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>10</sup>

สารเคมี ปลอดภัยจาก 1000 25 ชนิด

ลำดับ	สารเคมี	วิธีการตรวจ
1	Antimony	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
2	Arsenic	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
3	Cadmium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
4	Carbon Monoxide	Instrumental Analysis Method <sup>10</sup>
5	Chlorine	Isokinetic Sampling, Ion Chromatographic Method <sup>10</sup>
6	Chromium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
7	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
8	Copper	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
9	Curol	Absorption Sampling, Gas Chromatographic Method <sup>10</sup> <sup>10</sup> <sup>10</sup>

ลำดับ	สารเคมี	วิธีการตรวจ
10	Dioxins/Furans	Isokinetic Sampling <sup>10</sup>
11	Hydrogen Chloride	Isokinetic Sampling, Ion Chromatographic Method <sup>10</sup>
12	Hydrogen Fluoride	Isokinetic Sampling, Ion Chromatographic Method <sup>10</sup>
13	Hydrogen Sulfide	Absorption Sampling, Isokinetic Method <sup>10</sup>
14	Lead	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
15	Manganese	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
16	Mercury	Isokinetic Sampling, Digestion, Cold Vapor Atomic Absorption Spectrometric Method <sup>10</sup>
17	Nickel	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
18	Oracly	Isokinetic Sampling <sup>10</sup>
19	Oxides of Nitrogen	1) Absorption Sampling, Phenylhydrazine acid Method <sup>10</sup> 2) Instrumental Analysis Method <sup>10</sup>
20	Selenium	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>10</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
21	Sulfur Oxides	1) Absorption Sampling, Barium Chloride Thermochemical Method <sup>10</sup> 2) Instrumental Analysis Method <sup>10</sup>
22	Sulfuric Acid	Isokinetic Sampling, Sulfuric Acid Spectrometric Method <sup>10</sup>
23	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method <sup>10</sup>
24	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>10</sup>
25	Xylene	1) Bag Sampling, Gas Chromatographic Method <sup>10</sup> 2) Absorption Sampling, Gas Chromatographic Method <sup>10</sup> <sup>10</sup> <sup>10</sup>

สิ่งประกอบวิเคราะห์ที่วิเคราะห์ จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีการวิเคราะห์
1	Alum	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
2	Antimony	Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
3	Aspiric	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(1)(1)(5)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(4)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
7	Chloride	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(4)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup>

3) Digestion...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
9	Chromium (III)	3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(4)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup> 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method, Waste Extraction, Colorimetric Method, Colorimetric Method <sup>(1)(4)(5)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method, Waste Extraction, Colorimetric Method, Colorimetric Method <sup>(1)(4)(5)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method, Alkaline Digestion, Colorimetric Method, Colorimetric Method <sup>(1)(4)(5)</sup> 4) Digestion, Inductively Coupled Plasma Method, Alkaline Digestion, Colorimetric Method, Colorimetric Method <sup>(1)(4)(5)</sup>
10	Chromium VI	1) Waste Extraction, Colorimetric Method <sup>(1)(4)</sup> 2) Alkaline Digestion, Colorimetric Method <sup>(1)(4)</sup>
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(4)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
13	CrO <sub>2</sub>	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
14	CS <sub>2</sub>	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>

13. COE...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
15	OC	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
16	OD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
17	Onide	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
18	Picric	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(4)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
21	Onide	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
22	Mercury	1) Waste Extraction, Digestion, Cold Vapor Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup>

3) Digestion...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
23	Methoxychlor	3) Digestion, Cold Vapor Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup> 5) Thermal Decomposition Analysis and Atomic Absorption Spectrometric Method <sup>(1)(5)</sup>
24	Isolydenum	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>
25	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup> 3) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(4)</sup> 4) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1)(4)</sup> 5) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(5)</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>(1)(5)</sup>
26	Polychlorinated Biphenyls -Aroclor 1215 -Aroclor 1221 -Aroclor 1230 -Aroclor 1242 -Aroclor 1248 -Aroclor 1254 -Aroclor 1260 -2-Chlorobiphenyl -3,3-Dichlorobiphenyl -2,2,5-Trichlorobiphenyl -2,4,5-Trichlorobiphenyl -2,2,3,5-Tetrachlorobiphenyl -2,2,3,4-Tetrachlorobiphenyl -2,2,3,4,5-Pentachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)(4)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(4)</sup>

- 2,2,3,5,5...





ลำดับ	สารเคมี	วิธีการ
31	Chloroform	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
33	Chromium	D Digestion, Flame Atomic Absorption Spectrometry Method <sup>(1)(2)</sup>
34	Chromium (III)	D Digestion, Inductively Coupled Plasma Method <sup>(1)(2)</sup> D Digestion, Flame Atomic Absorption Spectrometry Method, Alkaline Digestion, Colorimetric Method, Calorimetry <sup>(1)(2)(3)</sup>
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method <sup>(1)(2)</sup>
36	Cresyene	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
37	Cyanide	Extraction, Distillation, Colorimetric Method <sup>(1)(2)(3)</sup>
38	CYU	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
39	DDT	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
40	DD	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
41	DET	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
42	Diethylmethacrylate	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>

43 Di-n-butyl phthalate...

ลำดับ	สารเคมี	วิธีการ
43	Di-n-butyl phthalate	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
47	1,3-Dichlorobenzene	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
51	Di-1,2-Dichloroethylene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
52	Di-1,2-Dichloroethylene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
54	1,3-Dichlorophenol	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
55	1,3-Dichlorophenol	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
56	1,3-Dichlorophenol	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
57	DDO	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
58	Diethyl phthalate	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
59	2,4-Dimethylphenol	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>

60 2,4-Dichlorophenol...

ลำดับ	สารเคมี	วิธีการ
60	2,4-Dinitrophenol	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
61	2,4-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
62	2,6-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
63	Di-n-Octyl phthalate	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
64	Dinitrofluorene	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
65	DDPH	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
66	Dibutylbenzene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
67	Fluorenone	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
68	Fluorene	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
69	Heptachlor	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
70	Heptachlor epoxide	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>

71 Heptachloromethane...

ลำดับ	สารเคมี	วิธีการ
71	Heptachloromethane	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
73	n-Hexane	Purge and Trap, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
74	α-HCH	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
75	β-HCH	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
76	γ-HCH	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
77	Heptachlorocyclopentadiene	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
78	Hexachlorocyclopentadiene	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
79	Endo-1,2,3-cyclopentene	D Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
80	Isophenanthrene	Ultrasonic Extraction, Gas Chromatography/Mass Spectrometry Method <sup>(1)(2)</sup>
81	LEAD	D Digestion, Flame Atomic Absorption Spectrometry Method <sup>(1)(2)</sup>
82	Mangrovia	D Digestion, Inductively Coupled Plasma Method <sup>(1)(2)</sup>

83 Mercury...

46. *Didactylus* *Didactylus*

2238556

เอกสารอ้างอิง

1. กรมการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย, พ.ศ. 2558, เว็บไซต์กรมการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย, <http://www.pso.or.th>, เข้าถึงเมื่อ 10/05/2559
2. กรมการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย, พ.ศ. 2558, เว็บไซต์กรมการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย, <http://www.pso.or.th>, เข้าถึงเมื่อ 10/05/2559

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16. United States...

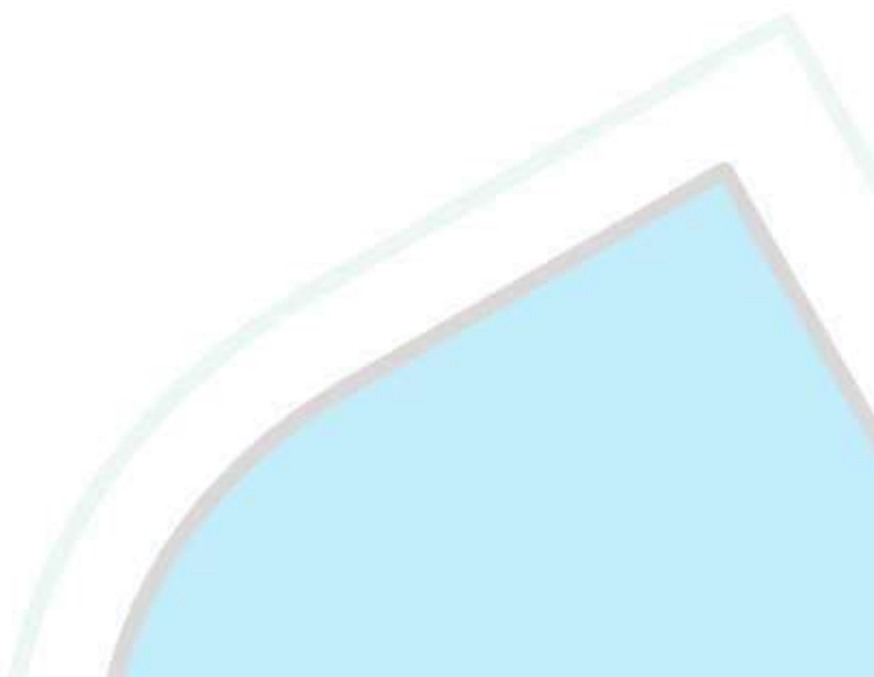
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25. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry*, SW-846 Method 8260D, 2013.
26. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry*, SW-846 Method 8270E, 2013.
27. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Chlorinated Hydrocarbons by GC Using Methylation or Pentafluorobenzoylation Derivatization*, SW-846 Method 8321A, 1996. [\[2\]](#)

28. United States...

28. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Total and Amenable Cyanide*, SW-846 Method 9013C, 2004.
29. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Cyanide Extraction Procedure for Solids and Gels*, SW-846 Method 9013A, 2004.
30. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Cyanide in Waters and Extracts using Titrimetric and Manual Spectrophotometric Procedures*, SW-846 Method 9014, 2004.
31. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: pH Electrometric Measurement*, SW-846 Method 9040C, 2004.
32. United States Environmental Protection Agency. *Test Methods for Evaluation Solid Waste Physical/Chemical Methods: Soil and Waste pH*, SW-846 Method 9042D, 2006. [\[2\]](#)



**ภาคผนวก ณ-5**  
**เอกสารการสอบเทียบเครื่องมือ**



List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
1	Orifice Transfer Standard Calibrator	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> )	Tisch Environmental, Inc.	TE-5025A 3383	Jiranatee Associates Co., LTD.	CL-003-65	26 Jul 22	24 Jul 24	-
2	U-Tube Manometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> )	Dwyer	1221-36-W/M -	Technology Promotion Association (Thailand-Japan)	23P1396	9 May 23	7 May 24	-
3	Aneroid Barometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> )	Barigo, Germany	-	Technology Promotion Association (Thailand-Japan)	23P1855	2 Jun 23	31 May 24	-
4	Dial Thermo-Hygrometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> )	Barigo, Germany	-	Technology Promotion Association (Thailand-Japan)	23H1200	6 Jun 23	5 Jun 24	-
5	Wind Speed/Wind Direction	WS/WD	Scarlet Tech Ltd.	WL-21 2112DR0072	Thai Meteorological Department	142/23	30 Mar 23	28 Mar 24	-
6	Wind Speed/Wind Direction	WS/WD	Scarlet Tech Ltd.	WL-21 2111DR0041	Thai Meteorological Department	143/23	30 Mar 23	28 Mar 24	-
7	Sound Level Calibrator (Acoustic Calibrator)	Calibrate Sound Level Meter	Svantek	SV35A 73249	Innovative Instrument Co., Ltd.	23-ACT-006	12 May 23	10 May 24	-
8	Sound Level Meter	L <sub>Aeq</sub> 24 hours* L <sub>A</sub> 1h	Larson Davis	LxT1 0007313	Larson Davis - A PCB Division	2023002738	24 Mar 23	22 Mar 24	-
9	Sound Level Meter	L <sub>Aeq</sub> 24 hours* L <sub>A</sub> 1h	Larson Davis	LxT1 0007301	Larson Davis - A PCB Division	2023003657	23 Mar 23	21 Mar 24	-







## កងកម្មវិធីសិក្សា



## កងក្រមស្រាវជ្រាវ



## កងក្រមព្រហ្មទណ្ឌ



## ԴՆԴԱՆԱԴՆԱԿԱՆՈՒԹՅՈՒՆ



## កងក្រមព្រហ្មទណ្ឌ

[illegible]

### The Result of Calibration

THE UNIVERSITY OF CHICAGO PRESS

## ក្នុងក្របខណ្ឌនៃសេចក្តីសង្ខេប

Sl. No.	Name of the Candidate	Grade	Remarks
1	ABHIRAM K	10	
2	ABHIRAM K	10	
3	ABHIRAM K	10	
4	ABHIRAM K	10	
5	ABHIRAM K	10	
6	ABHIRAM K	10	
7	ABHIRAM K	10	
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98	ABHIRAM K	10	
99	ABHIRAM K	10	
100	ABHIRAM K	10	

### The Result of Calibration

THE NEUROLOGICAL DEPARTMENT

## កងក្រមព្រហ្មទណ្ឌ

[illegible]

### The Result of Calibration

EPI METHAMORPHIC DEPARTMENT

## ក្នុងក្របខណ្ឌនៃបទដ្ឋាន

[illegible]

Calibration Certificate

THE NEUROLOGICAL DEPARTMENT











# លេខកម្មបញ្ជីអាជ្ញាបណ្ណ



# លេខកម្មបញ្ជីអាជ្ញាបណ្ណ



# លេខកម្មបញ្ជីអាជ្ញាបណ្ណ





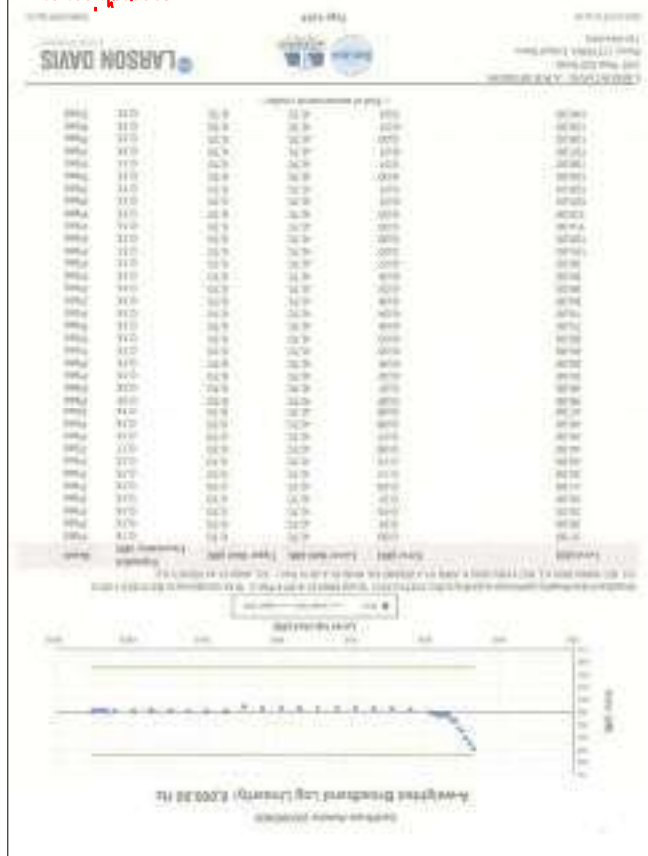
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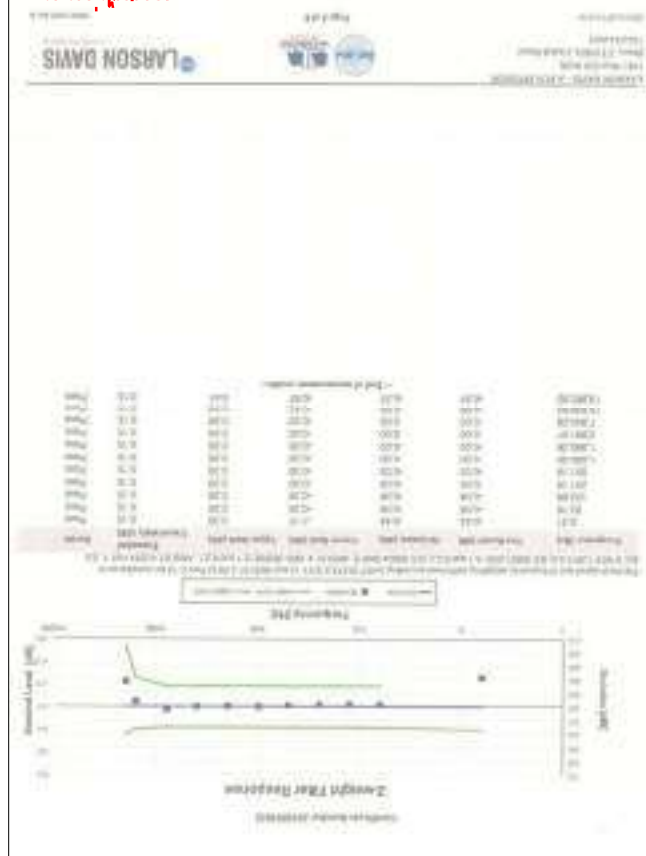
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## ក្នុងក្របខណ្ឌនៃសេចក្តីសម្រេច



## ក្រសួងសេដ្ឋកិច្ច









## Calibration Report



### Calibration Certificate



Certificate of Calibration







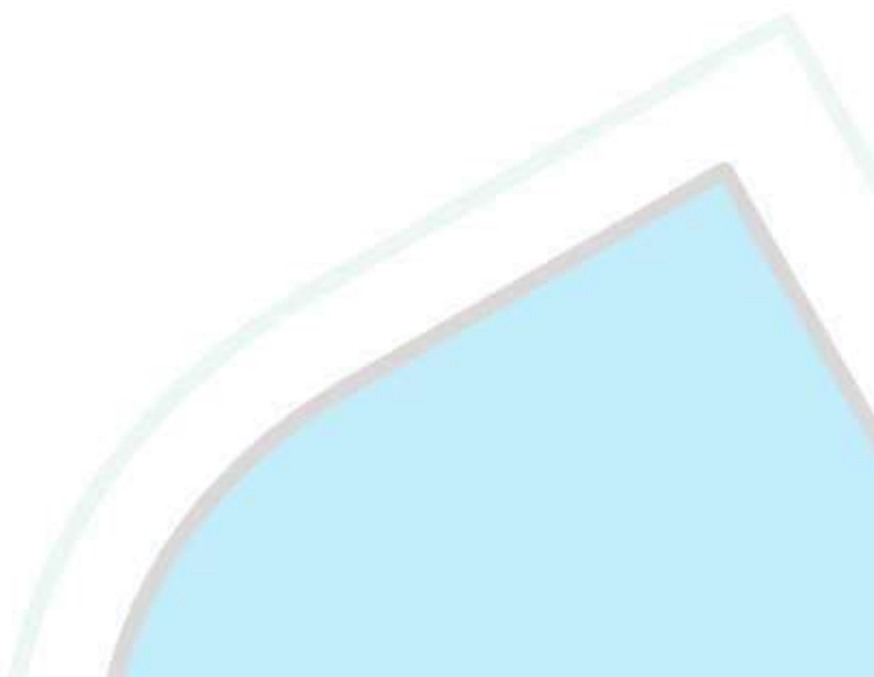








**ภาคผนวก ณ-6**  
**มาตรฐานที่เกี่ยวข้อง**





ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ  
ฉบับที่ ๒๔ (พ.ศ. ๒๕๔๗)  
เรื่อง กำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

อาศัยอำนาจตามความในมาตรา ๓๒ และมาตรา ๓๔ แห่งพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ อันเป็นพระราชบัญญัติที่มีบทบัญญัติบางประการเกี่ยวกับการจํากัดสิทธิและเสรีภาพของบุคคล ซึ่งมาตรา ๒๙ ประกอบกับมาตรา ๓๕ มาตรา ๔๔ มาตรา ๕๐ และมาตรา ๕๑ ของรัฐธรรมนูญแห่งราชอาณาจักรไทยบัญญัติให้กระทำได้โดยอาศัยอำนาจตามบทบัญญัติแห่งกฎหมาย คณะกรรมการสิ่งแวดล้อมแห่งชาติ จึงได้มีมติในคราวการประชุมครั้งที่ ๒/๒๕๔๗ เมื่อวันที่ ๒๔ กุมภาพันธ์ ๒๕๔๗ ให้ปรับปรุงแก้ไขมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป ดังต่อไปนี้

ข้อ ๑ ให้ยกเลิกความใน (๔) ของข้อ ๒ แห่งประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ ๑๐ (พ.ศ. ๒๕๓๔) ออกตามความในพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ เรื่อง กำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป และให้ใช้ความต่อไปนี้แทน

“(๔) ค่าเฉลี่ยของก๊าซซัลเฟอร์ไดออกไซด์ ในเวลา ๒๔ ชั่วโมง จะต้องไม่เกิน ๐.๑๒ ส่วนในล้านส่วน หรือไม่เกิน ๐.๓๐ มิลลิกรัมต่อลูกบาศก์เมตร และค่ามัธยฐานเลขคณิต (Arithmetic Mean) ในเวลา ๑ ปี จะต้องไม่เกิน ๐.๐๔ ส่วนในล้านส่วน หรือไม่เกิน ๐.๑๐ มิลลิกรัมต่อลูกบาศก์เมตร”

ข้อ ๒ ให้ยกเลิกความใน (๒) และ (๓) ของข้อ ๔ แห่งประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ ๑๐ (พ.ศ. ๒๕๓๔) ออกตามความในพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ เรื่อง กำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป และให้ใช้ความต่อไปนี้แทน

“(๒) ค่าเฉลี่ยของฝุ่นละอองขนาดไม่เกิน ๑๐ ไมครอน ในเวลา ๒๔ ชั่วโมง จะต้องไม่เกิน ๐.๑๒ มิลลิกรัมต่อลูกบาศก์เมตร และค่ามัธยฐานเลขคณิต (Arithmetic Mean) ในเวลา ๑ ปี จะต้องไม่เกิน ๐.๐๕ มิลลิกรัมต่อลูกบาศก์เมตร

(๓) ค่าเฉลี่ยของฝุ่นละอองรวมหรือฝุ่นละอองขนาดไม่เกิน ๑๐๐ ไมครอน ในเวลา ๒๔ ชั่วโมง จะต้องไม่เกิน ๐.๓๓ มิลลิกรัมต่อลูกบาศก์เมตร และค่ามัธยฐานเลขคณิต (Arithmetic Mean) ในเวลา ๑ ปี จะต้องไม่เกิน ๐.๑๐ มิลลิกรัมต่อลูกบาศก์เมตร”

ประกาศ ณ วันที่ ๙ สิงหาคม พ.ศ. ๒๕๔๗

(ลงนาม) จาตุรนต์ ฉายแสง  
(นายกรัฐมนตรี ฉายแสง)

รองนายกรัฐมนตรี

ปฏิบัติหน้าที่ประธานคณะกรรมการสิ่งแวดล้อมแห่งชาติ

ราชกิจจานุเบกษา ฉบับประกาศทั่วไป เล่ม ๑๒๑ ตอนพิเศษ ๑๐๔ ง วันที่ ๒๒ กันยายน ๒๕๔๗



## ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ

ฉบับที่ ๑๕ (พ.ศ. ๒๕๔๐)

### เรื่อง กำหนดมาตรฐานระดับเสียงโดยทั่วไป

อาศัยอำนาจตามความในมาตรา ๑๒ (๕) แห่งพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ คณะกรรมการสิ่งแวดล้อมแห่งชาติกำหนดมาตรฐานระดับเสียงโดยทั่วไปไว้ดังต่อไปนี้

#### ข้อ ๑ ในประกาศนี้

“ระดับเสียงโดยทั่วไป” หมายความว่า ระดับเสียงที่เกิดขึ้นในสิ่งแวดล้อมโดยขณะหนึ่งระหว่างการตรวจวัดระดับเสียง โดยมีหน่วยเป็นเดซิเบล หรือ dB (A)

“ค่าระดับเสียงเฉลี่ย ๒๔ ชั่วโมง” หมายความว่า ค่าระดับเสียงซึ่งที่มีพลังงานเทียบเท่าระดับเสียงที่เกิดขึ้นจริง ซึ่งมีระดับเสียงเปลี่ยนแปลงตามเวลาในช่วง ๒๔ ชั่วโมง (๒๔ hours A-weighted Equivalent Continuous Sound Level) ซึ่งเรียกโดยย่อว่า Leq ๒๔ hr โดยมีหน่วยเป็นเดซิเบล หรือ dB (A)

“มาตรฐานระดับเสียง” หมายความว่า เครื่องวัดระดับเสียงตามมาตรฐาน IEC ๖๕๑ หรือ IEC ๘๐๔ ของคณะกรรมการการระหว่างประเทศว่าด้วยเทคนิคไฟฟ้า (International Electrotechnical Commission, IEC)

#### ข้อ ๒ ให้กำหนดมาตรฐานระดับเสียงโดยทั่วไปไว้ดังต่อไปนี้

- (๑) ค่าระดับเสียงสูงสุด ไม่เกิน ๑๑๕ เดซิเบล
- (๒) ค่าระดับเสียงเฉลี่ย ๒๔ ชั่วโมง ไม่เกิน ๗๐ เดซิเบล

#### ข้อ ๓

การตรวจวัดระดับเสียงโดยทั่วไป ให้ดำเนินการดังต่อไปนี้

- (๑) การตรวจวัดค่าระดับเสียงสูงสุด ให้ใช้มาตรฐานระดับเสียงตรวจวัดระดับเสียงในบริเวณที่มีคนอยู่หรืออาศัยอยู่
- (๒) การตรวจวัดค่าระดับเสียงเฉลี่ย ๒๔ ชั่วโมง ให้ใช้มาตรฐานระดับเสียงตรวจวัดระดับเสียงอย่างต่อเนื่องตลอดเวลา ๒๔ ชั่วโมงใดๆ
- (๓) การตั้งไมโครโฟนของมาตรฐานระดับเสียงที่บริเวณภายนอกอาคารให้ตั้งสูงจากพื้น ไม่น้อยกว่า ๑.๒๐ เมตร โดยในรัศมี ๓.๕๐ เมตร ตามแนวราบรอบไมโครโฟน ต้องไม่มีกำแพงหรือสิ่งอื่นใดที่มีคุณสมบัติในการสะท้อนเสียงกีดขวางอยู่
- (๔) การตั้งไมโครโฟนของมาตรฐานระดับเสียงที่บริเวณภายในอาคารให้ตั้งสูงจากพื้น ไม่น้อยกว่า ๑.๒๐ เมตร โดยในรัศมี ๑.๐๐ เมตร ตามแนวราบรอบไมโครโฟน ต้องไม่มีกำแพงสิ่งอื่นใดที่มีคุณสมบัติในการสะท้อนเสียงกีดขวางอยู่และต้องห่างจากช่องหน้าต่างหรือช่องทางที่ปิดออกนอกอาคารอย่างน้อย ๑.๕๐ เมตร

ข้อ ๔ การคำนวณค่าระดับเสียงจะต้องเป็นไปตามวิธีการที่องค์การระหว่างประเทศว่าด้วยมาตรฐาน (International Organization for Standardization, ISO) กำหนด ซึ่งกรมควบคุมมลพิษจะประกาศในราชกิจจานุเบกษา

ประกาศ ณ วันที่ ๑๒ มีนาคม พ.ศ. ๒๕๔๐

พลเอก ชวลิต ยงใจยุทธ

นายกรัฐมนตรี

ประธานคณะกรรมการสิ่งแวดล้อมแห่งชาติ

(ประกาศในราชกิจจานุเบกษา เล่ม ๑๑๔ ตอนที่ ๒๗ ง วันที่ ๓ เมษายน ๒๕๔๐)



ประกาศกรมสวัสดิการและคุ้มครองแรงงาน

เรื่อง มาตรฐานระดับเสียงที่ยอมให้ลูกจ้างได้รับเฉลี่ยตลอดระยะเวลาการทำงานในแต่ละวัน

โดยที่กฎกระทรวงกำหนดมาตรฐานในการบริหาร จัดการ และดำเนินการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงานเกี่ยวกับความร้อน แสงสว่าง และเสียง พ.ศ. ๒๕๕๙ กำหนดให้นายจ้างต้องควบคุมระดับเสียงที่ลูกจ้างได้รับเฉลี่ยตลอดระยะเวลาการทำงานในแต่ละวัน มิให้เกินมาตรฐานตามที่อธิบดีประกาศกำหนด

อาศัยอำนาจตามความในข้อ ๘ แห่งกฎกระทรวงกำหนดมาตรฐานในการบริหาร จัดการ และดำเนินการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงานเกี่ยวกับความร้อน แสงสว่าง และเสียง พ.ศ. ๒๕๕๙ อธิบดีกรมสวัสดิการและคุ้มครองแรงงานจึงออกประกาศไว้ดังต่อไปนี้

ข้อ ๑ ประกาศนี้เรียกว่า “ประกาศกรมสวัสดิการและคุ้มครองแรงงาน เรื่อง มาตรฐานระดับเสียงที่ยอมให้ลูกจ้างได้รับเฉลี่ยตลอดระยะเวลาการทำงานในแต่ละวัน”

ข้อ ๒ ประกาศนี้ให้ใช้บังคับเมื่อพ้นกำหนดเก้าสิบวันนับแต่วันประกาศในราชกิจจานุเบกษา

ข้อ ๓ นายจ้างต้องควบคุมระดับเสียงที่ลูกจ้างได้รับเฉลี่ยตลอดระยะเวลาการทำงานในแต่ละวัน (Time Weighted Average-TWA) มิให้เกินมาตรฐานตามตารางแนบท้ายประกาศ โดยหน่วยวัดระดับเสียงดังที่ใช้ในประกาศนี้ให้หน่วยเป็น เดซิเบลเอ

ประกาศ ณ วันที่ ๑๓ ธันวาคม พ.ศ. ๒๕๖๐

อนันต์ชัย อุทัยพัฒนาชีพ

ผู้ตรวจราชการกระทรวง รักษาการแทน

อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน

(ตารางแนบท้ายประกาศ)

ตารางมาตรฐานระดับเสียงที่ยอมให้ลูกจ้างได้รับเฉลี่ยตลอดระยะเวลาการทำงานในแต่ละวัน

ระดับเสียงเฉลี่ยตลอดเวลาการทำงาน (TWA)		ระยะเวลาการทำงานที่ได้รับเสียงต่อวัน*	
ไม่เกิน (เดซิเบลเอ)		ชั่วโมง	นาที
๘๒		๑.๖	-
๘๓		๑.๒	๔.๒
๘๔		๑.๐	๕
๘๕		๘	-
๘๖		๖	๒.๑
๘๗		๕	๒
๘๘		๔	-
๘๙		๓	๑.๑
๙๐		๒	๑.๑
๙๑		๒	-
๙๒		๑	๑.๕
๙๓		๑	๑.๖
๙๔		๑	-
๙๕		-	๔.๘
๙๖		-	๓.๘
๙๗		-	๓.๐
๙๘		-	๒.๔
๙๙		-	๑.๙
๑๐๐		๑.๐	๑.๒
๑๐๑		-	๑.๒
๑๐๒		-	๙
๑๐๓		-	๗.๕
๑๐๔		-	๖
๑๐๕		-	๕
๑๐๖		-	๔
๑๐๗		-	๓
๑๐๘		-	๒.๕
๑๐๙		-	๒
๑๑๐		-	๑.๕
๑๑๑		-	๑

หมายเหตุ \* ระยะเวลาการทำงานที่ได้รับเสียงเฉลี่ยตลอดระยะเวลาการทำงาน (TWA) ให้ใช้ค่ามาตรฐานที่กำหนดในตารางข้างต้นเป็นลำดับแรก หากไม่มีค่ามาตรฐานที่กำหนดตรงตามตารางให้คำนวณจากสูตรดังนี้

$$T = \frac{L - 16}{2}$$

เมื่อ T หมายถึง ระยะเวลาการทำงานที่ยอมให้ได้รับเสียง (ชั่วโมง)  
L หมายถึง ระดับเสียง (เดซิเบลเอ)

ในการมีค่าระดับเสียงเฉลี่ยตลอดระยะเวลาการทำงาน (TWA) ที่ได้จากการคำนวณมีเศษเศษนิยมให้ตัดเศษเศษนิยมออก

## ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม

เรื่อง กำหนดมาตรฐานความคุ้มครองระยะบายน้ำทิ้ง

จากเอกสารบางประเภทและบางขนาด

โดยที่ได้มีการปรับปรุงพระราชกฤษฎีกาซึ่งกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. ๒๕๓๕ เพื่อกำหนดมาตรฐานความคุ้มครองระยะบายน้ำทิ้ง และให้โอนภารกิจของกระทรวงวิทยาศาสตร์ เทคโนโลยีและสิ่งแวดล้อม ในส่วนที่เกี่ยวข้องกับพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ ไปเป็นของกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม ประกอบกับการสมควรให้คณะกรรมการควบคุมมลพิษเป็นผู้พิจารณาเห็นชอบกับวิธีการตรวจหาค่ามาตรฐานการระบายน้ำทิ้ง นอกเหนือจากวิธีการที่กำหนดไว้ในแผนกรมควบคุมมลพิษ จึงสมควรแก้ไขปรับปรุงประกาศกระทรวงวิทยาศาสตร์ เทคโนโลยีและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานความคุ้มครองระยะบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด

อาศัยอำนาจตามความในมาตรา ๕๕ แห่งพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ แก้ไขโดยมาตรา ๑๑๔ แห่งพระราชกฤษฎีกาแก้ไขบทบัญญัติให้สอดคล้องกับการโอนอำนาจหน้าที่ของส่วนราชการ ให้เป็นไปตามพระราชบัญญัติปรับปรุงกระทรวง ทบวง กรม พ.ศ. ๒๕๔๕ พ.ศ. ๒๕๔๕ อันเป็นพระราชบัญญัติที่มีบทบัญญัติบางประการเกี่ยวกับการจำกัดสิทธิและเสรีภาพของบุคคล ซึ่งมาตรา ๒๕ ประกอบกับมาตรา ๓๕ มาตรา ๔๘ มาตรา ๕๐ และมาตรา ๕๑ ของรัฐธรรมนูญแห่งราชอาณาจักรไทยบัญญัติให้กระทำได้ โดยอาศัยอำนาจตามบทบัญญัติแห่งกฎหมาย รัฐมนตรีว่าการกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม โดยคำแนะนำของคณะกรรมการควบคุมมลพิษ และโดยความเห็นชอบของคณะกรรมการสิ่งแวดล้อมแห่งชาติ จึงออกประกาศไว้ ดังต่อไปนี้

ข้อ ๑ ให้ยกเลิกประกาศกระทรวงวิทยาศาสตร์ เทคโนโลยีและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานความคุ้มครองระยะบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด ลงวันที่ ๑๐ มกราคม พ.ศ. ๒๕๓๖

ข้อ ๒ ในประกาศนี้

“อาคาร” หมายความว่า อาคารที่ก่อสร้างขึ้น ไม่ว่าจะมียลักษณะเป็นอาคารหลังเดียว หรือเป็นกลุ่มของอาคารซึ่งตั้งอยู่ภายในพื้นที่ซึ่งเป็นบริเวณเดียวกัน และไม่ว่าจะมีท่อระบายน้ำเพื่อเสีย หรือมีหลายท่อที่เชื่อมติดต่อกันระหว่างอาคารหรือไม่ก็ตาม ซึ่งได้แก่

(๑) อาคารชุด ตามกฎหมายว่าด้วยอาคารชุด

(๒) โรงแรม ตามกฎหมายว่าด้วยโรงแรม

(๓) หอพัก ตามกฎหมายว่าด้วยหอพัก

(๔) สถานบริการประเภทสถานอาบน้ำ นวดหรืออบตัว ซึ่งผู้ให้บริการแก่ลูกค้า ตามกฎหมายว่าด้วยสถานบริการ

(๕) โรงพยาบาลของทางราชการหรือสถานพยาบาล ตามกฎหมายว่าด้วยสถานพยาบาล

(๖) อาคารโรงเรียนเอกชน ตามกฎหมายว่าด้วยโรงเรียนเอกชน โรงเรียนของทางราชการ อาคารสถาบันอุดมศึกษาของเอกชน ตามกฎหมายว่าด้วยสถาบันอุดมศึกษาของเอกชนและสถาบันอุดมศึกษาของทางราชการ

(๗) อาคารที่ทำการของทางราชการ รัฐวิสาหกิจ หรือองค์การระหว่างประเทศและของเอกชน

(๘) อาคารของศูนย์การค้าหรือห้างสรรพสินค้า

(๙) ตลาด ตามกฎหมายว่าด้วยการสาธารณสุข แต่ไม่รวมถึง ท่าเทียบเรือประมง สะพานปลา หรือกิจการแพปลา

(๑๐) กิจการหรือร้านอาหาร

“น้ำทิ้ง” หมายความว่า น้ำเสียที่ผ่านระบบบำบัดน้ำเสียแล้วจนเป็นไปตามมาตรฐานความคุ้มครองระยะบายน้ำทิ้งตามที่กำหนดไว้ในประกาศนี้

ข้อ ๓ ให้แบ่งประเภทของอาคารตามข้อ ๒ ออกเป็น ๕ ประเภท คือ

(๑) อาคารประเภท ก.

(๒) อาคารประเภท ข.

(๓) อาคารประเภท ค.

(๔) อาคารประเภท ง.

(๕) อาคารประเภท จ.

ข้อ ๔ อาคารประเภท ก. หมายความว่า อาคารดังต่อไปนี้

(๑) อาคารชุดที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๕๐๐ ห้องนอนขึ้นไป

(๒) โรงแรมที่มีจำนวนห้องสำหรับใช้เป็นห้องพักรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๒๐๐ ห้องขึ้นไป

(๓) โรงพยาบาลของทางราชการ รัฐวิสาหกิจหรือสถานพยาบาล ตามกฎหมายว่าด้วยสถานพยาบาล ที่มีเตียงสำหรับผู้ป่วยไว้ค้างคืนรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๓๐ เตียงขึ้นไป





เล่ม ๑๒๒ ตอนที่ ๑๒๕ ง ราชกิจจานุเบกษา			หน้า ๘	๒๕ ธันวาคม ๒๕๔๘
<p>(๑) หอพักที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๑๐ ห้อง แต่ไม่ถึง ๕๐ ห้อง</p> <p>(๒) ตลาดที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๕๐๐ ตารางเมตร แต่ไม่ถึง ๑,๐๐๐ ตารางเมตร</p> <p>(๓) กิจตาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๑๐๐ ตารางเมตร แต่ไม่ถึง ๒๕๐ ตารางเมตร</p> <p>ข้อ ๘ อาคารประเภท จ. หมายความว่า กิจตาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นไม่ถึง ๑๐๐ ตารางเมตร</p> <p>ข้อ ๙ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ก. ต้องมีค่าดังต่อไปนี้</p> <p>(๑) ความเป็นกรดและด่าง (PH) ต้องมีค่าระหว่าง ๕-๙</p> <p>(๒) บีโอดี (BOD) ต้องมีค่าไม่เกิน ๒๐ มิลลิกรัมต่อลิตร</p> <p>(๓) สารแขวนลอย (Suspended Solids) ต้องมีค่าไม่เกิน ๓๐ มิลลิกรัมต่อลิตร</p> <p>(๔) ซัลไฟด์ (Sulfide) ต้องมีค่าไม่เกิน ๑.๐ มิลลิกรัมต่อลิตร</p> <p>(๕) สารที่ละลายได้ทั้งหมด (Total Dissolved Solids) ต้องมีค่าเพิ่มขึ้นจากปริมาณสารละลายในน้ำใช้ตามปกติไม่เกิน ๕๐๐ มิลลิกรัมต่อลิตร</p> <p>(๖) ตะกอนหนัก (Settleable Solids) ต้องมีค่าไม่เกิน ๐.๕ มิลลิกรัมต่อลิตร</p> <p>(๗) น้ำมันและไขมัน (Fat Oil and Grease) ต้องมีค่าไม่เกิน ๒๐ มิลลิกรัมต่อลิตร</p> <p>(๘) ทีเคเอ็น (TKN) ต้องมีค่าไม่เกิน ๓๕ มิลลิกรัมต่อลิตร</p> <p>ข้อ ๑๐ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ข. ต้องเป็นไปตามข้อ ๘</p> <p>เว้นแต่</p> <p>(๑) บีโอดี ต้องมีค่าไม่เกิน ๓๐ มิลลิกรัมต่อลิตร</p> <p>(๒) สารแขวนลอย ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร</p> <p>ข้อ ๑๑ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ค. ต้องเป็นไปตามข้อ ๘</p> <p>เว้นแต่</p> <p>(๑) บีโอดี ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร</p> <p>(๒) สารแขวนลอย ต้องมีค่าไม่เกิน ๕๐ มิลลิกรัมต่อลิตร</p>				

เล่ม ๑๒๒ ตอนที่ ๑๒๕ ง ราชกิจจานุเบกษา			หน้า ๙	๒๕ ธันวาคม ๒๕๔๘
<p>(๓) ซัลไฟด์ ต้องมีค่าไม่เกิน ๓.๐ มิลลิกรัมต่อลิตร</p> <p>(๔) ค่าทีเคเอ็น ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร</p> <p>ข้อ ๑๒ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ง. ต้องเป็นไปตามข้อ ๘</p> <p>เว้นแต่</p> <p>(๑) บีโอดี ต้องมีค่าไม่เกิน ๕๐ มิลลิกรัมต่อลิตร</p> <p>(๒) สารแขวนลอย ต้องมีค่าไม่เกิน ๕๐ มิลลิกรัมต่อลิตร</p> <p>(๓) ซัลไฟด์ ต้องมีค่าไม่เกิน ๔.๐ มิลลิกรัมต่อลิตร</p> <p>(๔) ค่าทีเคเอ็น ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร</p> <p>ข้อ ๑๓ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท จ. ต้องมีค่าดังต่อไปนี้</p> <p>(๑) ความเป็นกรดและด่างต้องมีค่าระหว่าง ๕-๙</p> <p>(๒) บีโอดี ต้องมีค่าไม่เกิน ๒๐๐ มิลลิกรัมต่อลิตร</p> <p>(๓) สารแขวนลอย ต้องมีค่าไม่เกิน ๖๐ มิลลิกรัมต่อลิตร</p> <p>(๔) น้ำมันและไขมัน ต้องมีค่าไม่เกิน ๑๐๐ มิลลิกรัมต่อลิตร</p> <p>ข้อ ๑๔ การตรวจสอบมาตรฐานการระบายน้ำทิ้งจากอาคาร ให้ใช้วิธีการดังต่อไปนี้</p> <p>(๑) การตรวจสอบค่าความเป็นกรดและด่างให้กระทำโดยใช้เครื่องวัดความเป็นกรดและด่างของน้ำ (PH Meter)</p> <p>(๒) การตรวจสอบค่าบีโอดีให้กระทำโดยใช้วิธีการอะไซด์โมดิฟิเคชัน (Azide Modification) ที่อุณหภูมิ ๒๐ องศาเซลเซียส เป็นเวลา ๕ วัน ติดต่อกันหรือวิธีการอื่นที่คณะกรรมการควบคุมมลพิษให้ความเห็นชอบ</p> <p>(๓) การตรวจสอบค่าสารแขวนลอยให้กระทำโดยใช้วิธีการกรองผ่านกระดาษกรองใยแก้ว (Glass Fibre Filter Disc)</p> <p>(๔) การตรวจสอบค่าซัลไฟด์ให้กระทำโดยใช้วิธีการไตเตรท (Titrate)</p> <p>(๕) การตรวจสอบค่าสารที่ละลายได้ทั้งหมดให้กระทำโดยใช้วิธีการหยดแห้งระหว่างอุณหภูมิ ๑๐๓ องศาเซลเซียส ถึงอุณหภูมิ ๑๐๕ องศาเซลเซียส ในเวลา ๑ ชั่วโมง</p> <p>(๖) การตรวจสอบค่าตะกอนหนักให้กระทำโดยใช้วิธีการกรวยอิมบอฟฟ์ (Imhoff cone) ขนาดบรรจุ ๑,๐๐๐ ลูกบาศก์เซนติเมตร ในเวลา ๑ ชั่วโมง</p>				

- (๗) การตรวจสอบค่าน้ำมันและไขมันให้กระทำโดยใช้วิธีการสกัดด้วยตัวทำละลาย แล้วแยกหาน้ำหนักของน้ำมันและไขมัน
- (๘) การตรวจสอบค่าที่เคเอ็นให้กระทำโดยใช้วิธีการเจลด้าห์ล (Kjeldahl)
- ข้อ ๑๕ การคิดคำนวณที่ใช้สอย จำนวนอาคารและจำนวนห้องของอาคาร หรือกลุ่มของอาคารให้เข้าไปตามวิธีการที่คณะกรรมการควบคุมเลพิษกำหนด โดยประกาศในราชกิจจานุเบกษา
- ข้อ ๑๖ วิธีการเก็บตัวอย่างน้ำ ความถี่ และระยะเวลาในการเก็บตัวอย่างน้ำ ให้เป็นไปตามที่คณะกรรมการควบคุมเลพิษกำหนด โดยประกาศในราชกิจจานุเบกษา
- ข้อ ๑๗ ประกาศนี้ให้ใช้บังคับตั้งแต่วันถัดจากวันประกาศในราชกิจจานุเบกษาเป็นต้นไป

ประกาศ ณ วันที่ ๑ พฤศจิกายน พ.ศ. ๒๕๔๘

ยงยุทธ ดิยะไพรัช

รัฐมนตรีว่าการกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม