

ภาคผนวก ค
ใบรายงานผลการวิเคราะห์ผลกระทบสิ่งแวดล้อม



ภาคผนวก ค-1
คุณภาพอากาศในบรรยากาศโดยทั่วไป





United Analyst and Engineering Consultant Co., Ltd.

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MSC-TSI-TIS 17025
TESTING 0207

ANALYSIS REPORT

PROJECT NAME : โครงการวางผังและจัดระบบขนส่งมวลชนสาย L15/43 กรุงเทพมหานคร-จังหวัดนนทบุรี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 E-mail : jutea.p@apicolic.com
SAMPLING SOURCE : A_SPH-A1 : บ้านใหม่ ตำบลเสนาห์ อำเภอเมืองสงขลา
SAMPLE TYPE : AMBIENT
SAMPLING DATE : AUGUST 15, 2024
SAMPLING TIME : AUGUST 15-19, 2024
SAMPLING BY : MR JUMPON SUANPET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : AUGUST 15, 2024
ANALYTICAL DATE : AUGUST 15-19, 2024
ISSUE DATE : AUGUST 20, 2024
REPORT NO. : 2024-U076085
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0001 - T24AS447-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			A_SPH-A1 : บ้านใหม่ ตำบลเสนาห์ อำเภอเมืองสงขลา	***	***
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T24AS447-0001 0.036	T24AS447-0002 0.031	T24AS447-0003 0.037
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.019	0.018	0.016
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK :
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 08:00 HOUR ON AUGUST 9, 2024 TO 08:00 HOUR ON AUGUST 10, 2024.
** : SAMPLING FROM 08:00 HOUR ON AUGUST 10, 2024 TO 08:00 HOUR ON AUGUST 11, 2024.
*** : SAMPLING FROM 08:00 HOUR ON AUGUST 11, 2024 TO 08:00 HOUR ON AUGUST 12, 2024.

Wissakorn ✓
(MISS BUSSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

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THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



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MSC-TSI-TIS 17025
TESTING 0207

ANALYSIS REPORT

PROJECT NAME : โครงการวางผังและจัดระบบขนส่งมวลชนสาย L15/43 กรุงเทพมหานคร-จังหวัดนนทบุรี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 E-mail : jutea.p@apicolic.com
SAMPLING SOURCE : A_SPH-A2 : บ้านใหม่ ตำบลเสนาห์ อำเภอเมืองสงขลา
SAMPLE TYPE : AMBIENT
SAMPLING DATE : AUGUST 15, 2024
SAMPLING TIME : AUGUST 15-19, 2024
SAMPLING BY : MR JUMPON SUANPET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : AUGUST 15, 2024
ANALYTICAL DATE : AUGUST 15-19, 2024
ISSUE DATE : AUGUST 20, 2024
REPORT NO. : 2024-U076086
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0004 - T24AS447-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			A_SPH-A2 : บ้านใหม่ ตำบลเสนาห์ อำเภอเมืองสงขลา	***	***
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T24AS447-0004 0.019	T24AS447-0005 0.023	T24AS447-0006 0.024
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.009	0.012	0.014
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK :
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:30 HOUR ON AUGUST 9, 2024 TO 09:30 HOUR ON AUGUST 10, 2024.
** : SAMPLING FROM 09:30 HOUR ON AUGUST 10, 2024 TO 09:30 HOUR ON AUGUST 11, 2024.
*** : SAMPLING FROM 09:30 HOUR ON AUGUST 11, 2024 TO 09:30 HOUR ON AUGUST 12, 2024.

Wissakorn ✓
(MISS BUSSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการวางผังบริเวณโครงการพัฒนาที่ดิน 15/43 กรุงเทพมหานคร กรุงเทพมหานคร กรุงเทพมหานคร
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicollc.com
SAMPLING SOURCE : A_SPHE-A3 : บริเวณใต้หลังคาอาคารสำนักงาน
SAMPLE TYPE : AMBIENT
SAMPLING DATE : 15 AUGUST 2024
SAMPLING TIME : 15:19
ISSUE DATE : 20 AUGUST 2024
SAMPLING BY : MR JUMPON SUANPET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : 15 AUGUST 2024
ANALYTICAL DATE : 15-19 AUGUST 2024
REPORT NO. : 2024-U076087
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0007 - T24AS447-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			A_SPHE-A3 : บริเวณใต้หลังคาอาคารสำนักงาน	A_SPHE-A3 : บริเวณใต้หลังคาอาคารสำนักงาน	A_SPHE-A3 : บริเวณใต้หลังคาอาคารสำนักงาน
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.039	0.045	0.050
PARTICULATE MATTER (≤ 10 μm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.016	0.020	0.021
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM10
TSP : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:00 HOUR ON AUGUST 9, 2024 TO 09:00 HOUR ON AUGUST 10, 2024.
** : SAMPLING FROM 09:00 HOUR ON AUGUST 10, 2024 TO 09:00 HOUR ON AUGUST 11, 2024.
*** : SAMPLING FROM 09:00 HOUR ON AUGUST 11, 2024 TO 09:00 HOUR ON AUGUST 12, 2024.

Budsakorn
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : โครงการวางผังบริเวณโครงการพัฒนาที่ดิน 15/43 กรุงเทพมหานคร กรุงเทพมหานคร กรุงเทพมหานคร
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicollc.com
SAMPLING SOURCE : A_SPHE-A1 : บริเวณใต้หลังคาอาคารสำนักงาน
SAMPLE TYPE : AMBIENT
SAMPLING DATE : 15 AUGUST 2024
SAMPLING TIME : 15:19
ISSUE DATE : 20 AUGUST 2024
SAMPLING BY : MR JUMPON SUANPET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : 15 AUGUST 2024
ANALYTICAL DATE : 15-19 AUGUST 2024
REPORT NO. : 2024-U076089
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0001 - T24AS447-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			A_SPHE-A1 : บริเวณใต้หลังคาอาคารสำนักงาน	A_SPHE-A1 : บริเวณใต้หลังคาอาคารสำนักงาน	A_SPHE-A1 : บริเวณใต้หลังคาอาคารสำนักงาน
HYDROGEN SULPHIDE	mg/m ³	METHYLENE BLUE METHOD (APHA METHOD 709)	< 0.001	< 0.001	< 0.001
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
RESULT
* : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
** : SAMPLING FROM 08:00 HOUR ON AUGUST 9, 2024 TO 08:00 HOUR ON AUGUST 10, 2024.
*** : SAMPLING FROM 08:00 HOUR ON AUGUST 10, 2024 TO 08:00 HOUR ON AUGUST 11, 2024.
: SAMPLING FROM 08:00 HOUR ON AUGUST 11, 2024 TO 08:00 HOUR ON AUGUST 12, 2024.

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ANALYSIS REPORT

PROJECT NAME : โครงการสร้างระบบบำบัดน้ำเสียชุมชนเทศบาลตำบลบ้านดอน จังหวัดสุราษฎร์ธานี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicolc.com
SAMPLING SOURCE : A_SPEH2 : บริเวณครัวเรือน บ้านเลขที่ 100/1 บ้านดอน
SAMPLE TYPE : AMBIENT
SAMPLING DATE : RECEIVED DATE : AUGUST 15, 2024
ANALYTICAL DATE : AUGUST 15-19, 2024
ISSUE DATE : AUGUST 20, 2024
REPORT NO. : 2024-U076090
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0004 - T24AS447-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			A_SPEH2 : บ้านโนนศรีสวรรค์ ค่าเฉลี่ยของผลวิเคราะห์ตามวันวิเคราะห์		ค่าเฉลี่ย
HYDROGEN SULPHIDE	mg/m³	METHYLENE BLUE METHOD (ALPHA METHOD 70%)	T24AS447-0004	T24AS447-0005	T24AS447-0006
			< 0.001	< 0.001	< 0.001
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

RESULT

*

**

: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

: SAMPLING FROM 09:30 HOUR ON AUGUST 9, 2024 TO 09:30 HOUR ON AUGUST 10, 2024.

: SAMPLING FROM 09:30 HOUR ON AUGUST 10, 2024 TO 09:30 HOUR ON AUGUST 11, 2024.

: SAMPLING FROM 09:30 HOUR ON AUGUST 11, 2024 TO 09:30 HOUR ON AUGUST 12, 2024.

Budsakorn ✓

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- End of Analysis Report -



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Tel: 0 2763 2828 Fax: 0 2763 2800 www.uaec consultant.com E-mail: uaec@uaec consultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการสร้างระบบบำบัดน้ำเสียชุมชนเทศบาลตำบลบ้านดอน จังหวัดสุราษฎร์ธานี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicolc.com
SAMPLING SOURCE : A_SPEH3 : บริเวณใกล้พื้นที่โครงการ
SAMPLE TYPE : AMBIENT
SAMPLING DATE : RECEIVED DATE : AUGUST 15, 2024
ANALYTICAL DATE : AUGUST 15-19, 2024
ISSUE DATE : AUGUST 20, 2024
REPORT NO. : 2024-U076091
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0007 - T24AS447-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			A. SPIRE-43 : บริเวณใกล้พื้นที่โครงการ	Y.4	N.12
HYDROGEN SULPHIDE	mg/m ³	METHYLENE BLUE METHOD (ALPHA METHOD) (70%)	T24AS447-0007 < 0.001	T24AS447-0008 < 0.001	T24AS447-0009 < 0.001
			COMPLETE	COMPLETE	COMPLETE
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

RESULT

*

**

: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

: SAMPLING FROM 09:00 HOUR ON AUGUST 9, 2024 TO 09:00 HOUR ON AUGUST 10, 2024.

: SAMPLING FROM 09:00 HOUR ON AUGUST 10, 2024 TO 09:00 HOUR ON AUGUST 11, 2024.

: SAMPLING FROM 09:00 HOUR ON AUGUST 11, 2024 TO 09:00 HOUR ON AUGUST 12, 2024.

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการสร้างอาคารพาณิชย์ 15/43 ถนนสุขุมวิท/ซอย 4 กรุงเทพฯ
CUSTOMER NAME : APICO (KHOHAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAK NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9626 4651 e-mail : juthaporn@apicoll.com
MEASURING PLACE : A. SPHE-A1 : บริเวณชั้นบนสุดของอาคารพาณิชย์
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : *
MEASURING METHOD : NON-DISPERIVE INFRARED DETECTION
MEASURED BY : MR. JUMPHON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0075144
WORK NO. : 1023-007502
ANALYSIS NO. : T24AS447-0001 - T24AS447-0003

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	A. SPHE-A1 : บริเวณชั้นบนสุดของอาคารพาณิชย์	AUGUST 10-11, 2024	AUGUST 11-12, 2024
	T24AS447-0001	T24AS447-0002	T24AS447-0003
09:00-10:00 HOUR	1.06	1.15	1.41
10:00-11:00 HOUR	1.04	1.15	1.43
11:00-12:00 HOUR	1.04	1.14	1.43
12:00-13:00 HOUR	1.02	1.14	1.44
13:00-14:00 HOUR	0.94	1.16	1.47
14:00-15:00 HOUR	0.98	1.23	1.41
15:00-16:00 HOUR	0.87	1.30	1.38
16:00-17:00 HOUR	0.93	1.34	1.28
17:00-18:00 HOUR	1.01	1.34	1.18
18:00-19:00 HOUR	1.06	1.29	1.09
19:00-20:00 HOUR	1.06	1.25	1.10
20:00-21:00 HOUR	1.07	1.24	1.17
21:00-22:00 HOUR	1.10	1.29	1.24
22:00-23:00 HOUR	1.17	1.33	1.30
23:00-00:00 HOUR	1.24	1.39	1.35
00:00-01:00 HOUR	1.24	1.32	1.44
01:00-02:00 HOUR	1.21	1.20	1.43
02:00-03:00 HOUR	1.15	1.14	1.51
03:00-04:00 HOUR	1.11	1.11	1.45
04:00-05:00 HOUR	1.33	1.25	1.39
05:00-06:00 HOUR	1.28	1.33	1.28
06:00-07:00 HOUR	1.23	1.43	1.23
07:00-08:00 HOUR	1.20	1.40	1.23
08:00-09:00 HOUR	1.15	1.44	1.22

hid 78
(MR. SILA BANONGJANIRUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : โครงการสร้างอาคารพาณิชย์ 15/43 ถนนสุขุมวิท/ซอย 4 กรุงเทพฯ
CUSTOMER NAME : APICO (KHOHAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAK NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9626 4651 e-mail : juthaporn@apicoll.com
MEASURING PLACE : A. SPHE-A2 : บริเวณชั้นบนสุดของอาคารพาณิชย์
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : *
MEASURING METHOD : NON-DISPERIVE INFRARED DETECTION
MEASURED BY : MR. JUMPHON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0075145
WORK NO. : 1023-007502
ANALYSIS NO. : T24AS447-0004 - T24AS447-0006

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	A. SPHE-A2 : บริเวณชั้นบนสุดของอาคารพาณิชย์	AUGUST 10-11, 2024	AUGUST 11-12, 2024
	T24AS447-0004	T24AS447-0005	T24AS447-0006
09:00-10:00 HOUR	1.49	1.15	1.70
10:00-11:00 HOUR	1.46	1.20	1.52
11:00-12:00 HOUR	1.39	1.16	1.40
12:00-13:00 HOUR	1.35	1.15	1.40
13:00-14:00 HOUR	1.25	1.15	1.48
14:00-15:00 HOUR	1.45	1.14	1.43
15:00-16:00 HOUR	1.50	1.11	1.36
16:00-17:00 HOUR	1.56	1.06	1.24
17:00-18:00 HOUR	1.51	1.06	1.13
18:00-19:00 HOUR	1.46	1.10	1.10
19:00-20:00 HOUR	1.40	1.19	1.17
20:00-21:00 HOUR	1.29	1.21	1.27
21:00-22:00 HOUR	1.17	1.19	1.37
22:00-23:00 HOUR	1.07	1.11	1.37
23:00-00:00 HOUR	1.03	1.07	1.35
00:00-01:00 HOUR	1.10	1.13	1.36
01:00-02:00 HOUR	1.17	1.23	1.19
02:00-03:00 HOUR	1.24	1.26	1.11
03:00-04:00 HOUR	1.23	1.46	1.04
04:00-05:00 HOUR	1.14	1.51	0.60
05:00-06:00 HOUR	1.08	1.29	0.93
06:00-07:00 HOUR	1.02	1.5	1.01
07:00-08:00 HOUR	1.04	1.51	1.07
08:00-09:00 HOUR	1.10	1.3	1.18

hid 78
(MR. SILA BANONGJANIRUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบบำบัดน้ำเสียชุมชนตำบลบ้านใหม่ อำเภอเมือง จังหวัดนนทบุรี
CUSTOMER NAME : ATECO (KIDORAT) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATONG ROAD YAN NAWA SATONG BANGKOK 10120
CONTACT INFORMATION : TEL : 08-9938-4631 e-mail : info@uae.co.th
MEASURING PLACE : A. SPHE-A3 : บริเวณใกล้พื้นที่โครงการ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : AUGUST 21, 2024
MEASURING METHOD : NON-DISRUPTIVE INFRARED DETECTION
MEASURED BY : MR. SUPHON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-007615
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0007 - T24AS447-0009

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	AUGUST 9-10, 2024 T24AS447-0007	AUGUST 10-11, 2024 T24AS447-0008	AUGUST 11-12, 2024 T24AS447-0009
09:00-10:00 HOUR	1.63	1.29	1.78
10:00-11:00 HOUR	1.81	1.26	1.73
11:00-12:00 HOUR	1.77	1.23	1.59
12:00-13:00 HOUR	1.78	1.21	1.52
13:00-14:00 HOUR	1.77	1.21	1.50
14:00-15:00 HOUR	1.79	1.23	1.46
15:00-16:00 HOUR	1.72	1.59	1.41
16:00-17:00 HOUR	1.65	1.67	1.35
17:00-18:00 HOUR	1.55	1.74	1.34
18:00-19:00 HOUR	1.56	1.65	1.40
19:00-20:00 HOUR	1.64	1.59	1.53
20:00-21:00 HOUR	1.74	1.44	1.66
21:00-22:00 HOUR	1.79	1.39	1.77
22:00-23:00 HOUR	1.50	1.46	1.79
23:00-00:00 HOUR	1.82	1.46	1.69
00:00-01:00 HOUR	1.87	1.48	1.89
01:00-02:00 HOUR	1.69	1.43	1.95
02:00-03:00 HOUR	1.73	1.32	1.93
03:00-04:00 HOUR	1.63	1.26	1.88
04:00-05:00 HOUR	1.45	1.28	1.76
05:00-06:00 HOUR	1.34	1.47	1.67
06:00-07:00 HOUR	1.31	1.55	1.53
07:00-08:00 HOUR	1.30	1.75	1.34
08:00-09:00 HOUR	1.34	1.81	1.42

bhd 78

(MR. SILA BANONGJAIKURK)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบบำบัดน้ำเสียชุมชนตำบลบ้านใหม่ อำเภอเมือง จังหวัดนนทบุรี
CUSTOMER NAME : ATECO (KIDORAT) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATONG ROAD YAN NAWA SATONG BANGKOK 10120
CONTACT INFORMATION : TEL : 08-9938-4631 e-mail : info@uae.co.th
MEASURING PLACE : A. SPHE-A1 : บริเวณใกล้พื้นที่โครงการ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : AUGUST 21, 2024
MEASURING METHOD : OPTICAL FLUORESCENCE
MEASURED BY : MR. SUPHON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-007617
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0001 - T24AS447-0003

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	AUGUST 9-10, 2024 T24AS447-0001	AUGUST 10-11, 2024 T24AS447-0002	AUGUST 11-12, 2024 T24AS447-0003
09:00-10:00 HOUR	0.0050	0.0071	0.0108
10:00-11:00 HOUR	0.0087	0.0074	0.0163
11:00-12:00 HOUR	0.0066	0.0077	0.0105
12:00-13:00 HOUR	0.0087	0.0084	0.0086
13:00-14:00 HOUR	0.0065	0.0095	0.0160
14:00-15:00 HOUR	0.0083	0.0083	0.0102
15:00-16:00 HOUR	0.0090	0.0097	0.0109
16:00-17:00 HOUR	0.0089	0.0098	0.0108
17:00-18:00 HOUR	0.0101	0.0094	0.0112
18:00-19:00 HOUR	0.0116	0.0095	0.0113
19:00-20:00 HOUR	0.0119	0.0085	0.0103
20:00-21:00 HOUR	0.0123	0.0081	0.0102
21:00-22:00 HOUR	0.0131	0.0083	0.0107
22:00-23:00 HOUR	0.0132	0.0084	0.0097
23:00-00:00 HOUR	0.0126	0.0083	0.0095
00:00-01:00 HOUR	0.0113	0.0095	0.0083
01:00-02:00 HOUR	0.0110	0.0090	0.0063
02:00-03:00 HOUR	0.0099	0.0094	0.0033
03:00-04:00 HOUR	0.0085	0.0093	0.0092
04:00-05:00 HOUR	0.0071	0.0095	0.0096
05:00-06:00 HOUR	0.0064	0.0103	0.0092
06:00-07:00 HOUR	0.0266	0.0110	0.0086
07:00-08:00 HOUR	0.0057	0.0107	0.0092
08:00-09:00 HOUR	0.0072	0.0109	0.0073

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ANALYSIS REPORT

PROJECT NAME : โครงการสร้างท่าเรือขนส่งสินค้าและท่าเรือพลังงานไฟฟ้า 11543 กิโลเมตรทางบกและทางน้ำ
CUSTOMER NAME : APICO (KIGRAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD VAN NAWA SATHORN EMBROID 10170
CONTACT INFORMATION : TEL : 08 9028 4651 e-mail : lae@laeconsultant.com
MEASURING PLACE : A_SPEH-A2 : บริเวณทางรถไฟสายเก่าสถานีรถไฟกรุงเทพ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR JUMPOON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0376148
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0004 - T24AS447-0006

TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	AUGUST 9-10, 2024 T24AS447-0004	AUGUST 10-11, 2024 T24AS447-0005	AUGUST 11-12, 2024 T24AS447-0006	
09:00-10:00 HOUR	0.0077	0.0087	0.0122	
10:00-11:00 HOUR	0.0030	0.0081	0.0112	
11:00-12:00 HOUR	0.0086	0.0085	0.0108	
12:00-13:00 HOUR	0.0087	0.0082	0.0114	
13:00-14:00 HOUR	0.0090	0.0087	0.0099	
14:00-15:00 HOUR	0.0084	0.0084	0.0089	
15:00-16:00 HOUR	0.0085	0.0092	0.0077	
16:00-17:00 HOUR	0.0087	0.0077	0.0077	
17:00-18:00 HOUR	0.0093	0.0106	0.0078	
18:00-19:00 HOUR	0.0097	0.0103	0.0082	
19:00-20:00 HOUR	0.0105	0.0100	0.0095	
20:00-21:00 HOUR	0.0098	0.0097	0.0090	
21:00-22:00 HOUR	0.0098	0.0092	0.0099	
22:00-23:00 HOUR	0.0067	0.0095	0.0105	
23:00-00:00 HOUR	0.0091	0.0087	0.0109	
00:00-01:00 HOUR	0.0094	0.0101	0.0115	
01:00-02:00 HOUR	0.0105	0.0103	0.0122	
02:00-03:00 HOUR	0.0108	0.0107	0.0130	
03:00-04:00 HOUR	0.0109	0.0104	0.0130	
04:00-05:00 HOUR	0.0101	0.0101	0.0126	
05:00-06:00 HOUR	0.0093	0.0115	0.0115	
06:00-07:00 HOUR	0.0085	0.0123	0.0104	
07:00-08:00 HOUR	0.0085	0.0125	0.0101	
08:00-09:00 HOUR	0.0087	0.0127	0.0098	

bit 78
(MR SILA BANJONGJAIPIK)
LABORATORY SUPERVISOR

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PROJECT NAME : โครงการสร้างท่าเรือขนส่งสินค้าและท่าเรือพลังงานไฟฟ้า 11543 กิโลเมตรทางบกและทางน้ำ
CUSTOMER NAME : APICO (KIGRAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD VAN NAWA SATHORN EMBROID 10170
CONTACT INFORMATION : TEL : 08 9028 4651 e-mail : lae@laeconsultant.com
MEASURING PLACE : A_SPEH-A3 : บริเวณทางรถไฟสายเก่าสถานีรถไฟกรุงเทพ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR JUMPOON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0376148
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0007 - T24AS447-0009

TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	AUGUST 9-10, 2024 T24AS447-0007	AUGUST 10-11, 2024 T24AS447-0008	AUGUST 11-12, 2024 T24AS447-0009	
09:00-10:00 HOUR	0.0117	0.0105	0.0124	
10:00-11:00 HOUR	0.0118	0.0097	0.0120	
11:00-12:00 HOUR	0.0115	0.0126	0.0105	
12:00-13:00 HOUR	0.0109	0.0126	0.0081	
13:00-14:00 HOUR	0.0110	0.0109	0.0093	
14:00-15:00 HOUR	0.0114	0.0112	0.0090	
15:00-16:00 HOUR	0.0118	0.0119	0.0091	
16:00-17:00 HOUR	0.0121	0.0121	0.0095	
17:00-18:00 HOUR	0.0122	0.0132	0.0096	
18:00-19:00 HOUR	0.0121	0.0116	0.0095	
19:00-20:00 HOUR	0.0128	0.0121	0.0090	
20:00-21:00 HOUR	0.0122	0.0123	0.0093	
21:00-22:00 HOUR	0.0116	0.0124	0.0095	
22:00-23:00 HOUR	0.0108	0.0116	0.0099	
23:00-00:00 HOUR	0.0114	0.0117	0.0105	
00:00-01:00 HOUR	0.0114	0.0105	0.0102	
01:00-02:00 HOUR	0.0110	0.0109	0.0102	
02:00-03:00 HOUR	0.0106	0.0107	0.0097	
03:00-04:00 HOUR	0.0108	0.0107	0.0096	
04:00-05:00 HOUR	0.0112	0.0105	0.0090	
05:00-06:00 HOUR	0.0107	0.0114	0.0094	
06:00-07:00 HOUR	0.0103	0.0124	0.0084	
07:00-08:00 HOUR	0.0099	0.0114	0.0077	
08:00-09:00 HOUR	0.0095	0.0121	0.0077	

bit 78
(MR SILA BANJONGJAIPIK)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบบำบัดน้ำเสียชุมชนตำบลบ้านใหม่ อำเภอเมือง จังหวัดบุรีรัมย์
CUSTOMER NAME : APICO (KHO RAT) COMPANY LIMITED
ADDRESS : SUITE 2610 CHINESE TOWER 1 SOUTH SATHORN ROAD YAN HAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9658 4511 e-mail : jae@ljae.co.th
MEASURING PLACE : A. SPHE-A1 : บริเวณด้านหน้าอาคารโรงงาน
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : AUGUST 9-12, 2024
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : HR. JUMPON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0076150
WORK NO. : 2024-007682
ANALYSIS NO. : T24AS447-0001 - T24AS447-0003

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	AUGUST 9-10, 2024 T24AS447-0001	AUGUST 10-11, 2024 T24AS447-0002	AUGUST 11-12, 2024 T24AS447-0003
09:00-10:00 HOUR	0.0020	0.0019	0.0017
10:00-11:00 HOUR	0.0020	0.0019	0.0016
11:00-12:00 HOUR	0.0019	0.0020	0.0016
12:00-13:00 HOUR	0.0017	0.0020	0.0017
13:00-14:00 HOUR	0.0018	0.0020	0.0017
14:00-15:00 HOUR	0.0019	0.0019	0.0018
15:00-16:00 HOUR	0.0019	0.0021	0.0018
16:00-17:00 HOUR	0.0018	0.0020	0.0018
17:00-18:00 HOUR	0.0020	0.0022	0.0016
18:00-19:00 HOUR	0.0024	0.0019	0.0014
19:00-20:00 HOUR	0.0021	0.0017	0.0011
20:00-21:00 HOUR	0.0020	0.0018	0.0012
21:00-22:00 HOUR	0.0018	0.0020	0.0013
22:00-23:00 HOUR	0.0017	0.0020	0.0011
23:00-00:00 HOUR	0.0016	0.0021	0.0010
00:00-01:00 HOUR	0.0016	0.0019	0.0010
01:00-02:00 HOUR	0.0015	0.0017	0.0011
02:00-03:00 HOUR	0.0016	0.0017	0.0012
03:00-04:00 HOUR	0.0017	0.0017	0.0011
04:00-05:00 HOUR	0.0013	0.0017	0.0011
05:00-06:00 HOUR	0.0020	0.0016	0.0012
06:00-07:00 HOUR	0.0020	0.0016	0.0013
07:00-08:00 HOUR	0.0020	0.0017	0.0016
08:00-09:00 HOUR	0.0020	0.0017	0.0016
AVERAGE 24 HOUR	0.0019	0.0019	0.0014

hid ya

(MR. SULA BANGJAIYUK)
LABORATORY SUPERVISOR

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PROJECT NAME : โครงการพัฒนาระบบบำบัดน้ำเสียชุมชนตำบลบ้านใหม่ อำเภอเมือง จังหวัดบุรีรัมย์
CUSTOMER NAME : APICO (KHO RAT) COMPANY LIMITED
ADDRESS : SUITE 2610 CHINESE TOWER 1 SOUTH SATHORN ROAD YAN HAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9658 4511 e-mail : jae@ljae.co.th
MEASURING PLACE : A. SPHE-A2 : บริเวณด้านหน้าอาคารโรงงาน
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : AUGUST 9-12, 2024
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : HR. JUMPON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0076151
WORK NO. : 2024-007682
ANALYSIS NO. : T24AS447-0004 - T24AS447-0006

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	AUGUST 9-10, 2024 T24AS447-0004	AUGUST 10-11, 2024 T24AS447-0005	AUGUST 11-12, 2024 T24AS447-0006
09:00-10:00 HOUR	0.0015	0.0016	0.0019
10:00-11:00 HOUR	0.0013	0.0016	0.0018
11:00-12:00 HOUR	0.0011	0.0010	0.0016
12:00-13:00 HOUR	0.0010	0.0010	0.0015
13:00-14:00 HOUR	0.0010	0.0011	0.0017
14:00-15:00 HOUR	0.0010	0.0011	0.0018
15:00-16:00 HOUR	0.0011	0.0012	0.0019
16:00-17:00 HOUR	0.0012	0.0013	0.0019
17:00-18:00 HOUR	0.0013	0.0016	0.0017
18:00-19:00 HOUR	0.0016	0.0016	0.0017
19:00-20:00 HOUR	0.0019	0.0018	0.0017
20:00-21:00 HOUR	0.0018	0.0019	0.0016
21:00-22:00 HOUR	0.0016	0.0017	0.0015
22:00-23:00 HOUR	0.0015	0.0019	0.0015
23:00-00:00 HOUR	0.0013	0.0019	0.0014
00:00-01:00 HOUR	0.0012	0.0019	0.0011
01:00-02:00 HOUR	0.0011	0.0019	0.0010
02:00-03:00 HOUR	0.0011	0.0018	0.0011
03:00-04:00 HOUR	0.0014	0.0018	0.0012
04:00-05:00 HOUR	0.0016	0.0018	0.0014
05:00-06:00 HOUR	0.0017	0.0017	0.0016
06:00-07:00 HOUR	0.0015	0.0017	0.0018
07:00-08:00 HOUR	0.0012	0.0018	0.0017
08:00-09:00 HOUR	0.0010	0.0020	0.0015
AVERAGE 24 HOUR	0.0013	0.0015	0.0016

hid ya

(MR. SULA BANGJAIYUK)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการสร้างโรงงานอุตสาหกรรมและที่พักอาศัยบริเวณพื้นที่ 15 ไร่ 3 งาน 10 ตารางวา กรุงเทพมหานคร
CUSTOMER NAME : APICO (HONAT) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 02 9628 4651 e-mail : lae@laeconsultant.com
MEASURING PLACE : A_SPEH-A3 : บริเวณใกล้พื้นที่ก่อสร้าง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
MEASURING TIME : 08:00-17:00
REPORT NO. : 2024-0076152
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0009

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	AUGUST 9-10, 2024 T24AS447-0007	AUGUST 10-11, 2024 T24AS447-0008	AUGUST 11-12, 2024 T24AS447-0009
08:00-10:00 HOUR	0.0016	0.0024	0.0022
10:00-11:00 HOUR	0.0012	0.0021	0.0021
11:00-12:00 HOUR	0.0032	0.0020	0.0020
12:00-13:00 HOUR	0.0011	0.0018	0.0018
13:00-14:00 HOUR	0.0012	0.0017	0.0018
14:00-15:00 HOUR	0.0013	0.0019	0.0016
15:00-16:00 HOUR	0.0015	0.0020	0.0017
16:00-17:00 HOUR	0.0017	0.0021	0.0015
17:00-18:00 HOUR	0.0018	0.0020	0.0014
18:00-19:00 HOUR	0.0017	0.0020	0.0013
19:00-20:00 HOUR	0.0018	0.0021	0.0014
20:00-21:00 HOUR	0.0018	0.0021	0.0010
21:00-22:00 HOUR	0.0019	0.0022	0.0013
22:00-23:00 HOUR	0.0019	0.0021	0.0020
23:00-00:00 HOUR	0.0018	0.0021	0.0020
00:00-01:00 HOUR	0.0021	0.0021	0.0022
01:00-02:00 HOUR	0.0018	0.0021	0.0024
02:00-03:00 HOUR	0.0019	0.0020	0.0014
03:00-04:00 HOUR	0.0021	0.0019	0.0011
04:00-05:00 HOUR	0.0022	0.0020	0.0010
05:00-06:00 HOUR	0.0027	0.0024	0.0017
06:00-07:00 HOUR	0.0025	0.0025	0.0016
07:00-08:00 HOUR	0.0026	0.0025	0.0016
08:00-09:00 HOUR	0.0028	0.0024	0.0017
AVERAGE 24 HOUR	0.0018	0.0021	0.0016

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(MR. SILA BANONGKARNJAK)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการสร้างโรงงานอุตสาหกรรมและที่พักอาศัยบริเวณพื้นที่ 15 ไร่ 3 งาน 10 ตารางวา กรุงเทพมหานคร
CUSTOMER NAME : APICO (HONAT) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 02 9628 4651 e-mail : lae@laeconsultant.com
MEASURING PLACE : A_SPEH-A1 : บริเวณใกล้พื้นที่ก่อสร้าง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
MEASURING TIME : 08:00-17:00
REPORT NO. : 2024-0076153
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS447-0010

TIME *	RESULT (m/s)		
	A_SPEH-A1 : บริเวณใกล้พื้นที่ก่อสร้าง		
	AUGUST 9-10, 2024 T24AS447-0001	AUGUST 10-11, 2024 T24AS447-0002	AUGUST 11-12, 2024 T24AS447-0003
08:00-10:00 HOUR	1.7 SSE	1.2 SE	0.0 SE
10:00-11:00 HOUR	1.5 SE	1.0 SSE	1.0 SE
11:00-12:00 HOUR	1.5 SSE	1.8 SE	1.0 SSE
12:00-13:00 HOUR	2.1 SSE	2.2 SSE	1.1 SSE
13:00-14:00 HOUR	1.8 SSE	2.4 SSE	1.5 SSE
14:00-15:00 HOUR	1.6 E	3.0 SSE	1.2 SSE
15:00-16:00 HOUR	2.3 SSE	3.0 E	1.0 S
16:00-17:00 HOUR	1.9 SSE	2.7 E	1.5 S
17:00-18:00 HOUR	1.6 SSE	2.7 E	1.7 SSE
18:00-19:00 HOUR	1.6 SSE	2.0 E	1.7 SSE
19:00-20:00 HOUR	2.0 SSE	2.6 SSE	1.7 SSE
20:00-21:00 HOUR	2.2 S	2.6 SSE	1.7 SSE
21:00-22:00 HOUR	2.4 S	2.5 SSE	1.8 S
22:00-23:00 HOUR	2.0 SSE	3.6 SSE	1.6 SW
23:00-00:00 HOUR	1.8 S	3.4 E	1.1 SSE
00:00-01:00 HOUR	2.3 S	2.0 SSE	0.9 SW
01:00-02:00 HOUR	3.3 SSE	2.3 E	0.8 SSE
02:00-03:00 HOUR	3.1 SE	1.5 SSE	1.0 SW
03:00-04:00 HOUR	2.4 SE	1.6 S	1.2 SW
04:00-05:00 HOUR	2.1 SE	1.5 S	1.0 SSE
05:00-06:00 HOUR	2.2 SSE	2.0 S	1.2 SSE
06:00-07:00 HOUR	2.1 SSE	1.7 S	2.1 S
07:00-08:00 HOUR	1.4 SE	1.0 S	1.9 SSE
08:00-09:00 HOUR	1.1 SE	0.9 S	2.3 SSE

hit 7p
(MR. SILA BANONGKARNJAK)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบการระบายน้ำในเขตชุมชนเมือง (L15) 13 ถนนสุขุมวิท กรุงเทพมหานคร 10110
CUSTOMER NAME : APICO (THORAT) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAKI PAVIA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 02-9698 4651 E-mail : jirapap@apico.com
MEASURING PLACE : A-SPHE-A2 : บริเวณทางระบายน้ำในเขตชุมชนเมือง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : 14
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR JUMPON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0076154
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS47-0001 - T24AS47-0006

TIME *	RESULT (m/s)					
	A. SPHE-A2 : บริเวณทางระบายน้ำในเขตชุมชนเมือง			A. SPHE-A2 : บริเวณทางระบายน้ำในเขตชุมชนเมือง		
	AUGUST 9-10, 2024		AUGUST 10-11, 2024		AUGUST 11-12, 2024	
TIME *	T24AS447-0004		T24AS447-0005		T24AS447-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
09:00-10:00 HOUR	0.8	ESE	1.1	SSW	1.5	SE
10:00-11:00 HOUR	0.8	SE	1.2	SSE	1.1	SE
11:00-12:00 HOUR	0.9	SE	2.2	SSE	0.9	SE
12:00-13:00 HOUR	1.1	S	2.0	SW	1.2	SE
13:00-14:00 HOUR	0.9	SSW	2.5	SSW	1.4	SE
14:00-15:00 HOUR	0.9	SW	2.4	SSW	1.7	ESE
15:00-16:00 HOUR	0.7	SSW	1.5	S	2.2	SSE
16:00-17:00 HOUR	0.8	SSW	1.9	E	2.2	SSE
17:00-18:00 HOUR	1.0	SSW	1.6	SSE	2.3	ESE
18:00-19:00 HOUR	0.9	S	1.9	ESE	1.6	ESE
19:00-20:00 HOUR	0.9	SSW	2.1	SSE	2.7	SE
20:00-21:00 HOUR	0.7	S	1.0	ESE	2.7	SE
21:00-22:00 HOUR	1.1	SSE	1.7	SSE	3.4	SE
22:00-23:00 HOUR	0.9	S	2.2	SSE	3.0	SE
23:00-00:00 HOUR	1.1	S	2.0	SSE	2.8	SE
01:00-02:00 HOUR	1.0	S	2.3	SSE	2.5	SSE
02:00-03:00 HOUR	0.9	SSW	2.1	SSW	2.2	SSW
03:00-04:00 HOUR	0.8	SSW	1.7	S	2.0	S
04:00-05:00 HOUR	1.1	SW	2.1	S	2.3	SSW
05:00-06:00 HOUR	0.7	SSW	1.7	S	2.0	SW
06:00-07:00 HOUR	0.9	SSW	2.0	SE	1.9	SSW
07:00-08:00 HOUR	0.8	S	2.0	SSE	1.9	S
08:00-09:00 HOUR	1.1	SSW	1.4	ESE	1.7	SE
09:00-10:00 HOUR	1.0	SSW	1.4	SE	2.3	SE

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(MR SILA BANHONGJAIKUL)
LABORATORY SUPERVISOR

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ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบการระบายน้ำในเขตชุมชนเมือง (L15) 13 ถนนสุขุมวิท กรุงเทพมหานคร 10110
CUSTOMER NAME : APICO (THORAT) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAKI PAVIA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 02-9698 4651 E-mail : jirapap@apico.com
MEASURING PLACE : A-SPHE-A3 : บริเวณทางระบายน้ำในเขตชุมชนเมือง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : 14
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR JUMPON SUANPET
RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
REPORT NO. : 2024-0076155
WORK NO. : 2023-007682
ANALYSIS NO. : T24AS47-0007 - T24AS47-0009

TIME	RESULT (m/s)					
	A. SPHE-A3 : บริเวณทางระบายน้ำในเขตชุมชนเมือง					
	AUGUST 9-10, 2024		AUGUST 10-11, 2024		AUGUST 11-12, 2024	
	T24AS447-0007		T24AS447-0008		T24AS447-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
09:00-10:00 HOUR	1.4	S	1.1	SSE	1.5	ESE
10:00-11:00 HOUR	1.5	SSW	1.4	S	1.2	SE
11:00-12:00 HOUR	1.6	SSE	2.6	S	1.0	S
12:00-13:00 HOUR	1.7	SSW	3.3	SW	0.8	S
13:00-14:00 HOUR	2.0	SSW	2.6	WSW	1.4	SSE
14:00-15:00 HOUR	2.0	WSW	3.7	WSW	1.4	SSE
15:00-16:00 HOUR	1.7	WSW	3.8	SW	1.2	SSE
16:00-17:00 HOUR	1.6	SW	3.7	SW	1.8	SSE
17:00-18:00 HOUR	2.3	WSW	3.4	SSW	1.5	SSE
18:00-19:00 HOUR	1.7	SSW	2.0	SSE	2.7	SE
19:00-20:00 HOUR	1.9	S	2.3	S	2.6	SSE
20:00-21:00 HOUR	2.1	S	2.3	SE	2.8	SSE
21:00-22:00 HOUR	1.8	S	2.4	SW	3.5	SSW
22:00-23:00 HOUR	1.4	S	1.5	WSW	3.1	SSW
23:00-00:00 HOUR	1.6	S	2.0	WSW	3.7	SSW
00:00-01:00 HOUR	1.5	SSE	1.6	W	2.8	SSE
01:00-02:00 HOUR	1.6	S	1.6	W	3.8	SE
02:00-03:00 HOUR	1.9	SE	1.6	SSE	3.1	SE
03:00-04:00 HOUR	1.6	SE	2.4	S	3.6	SE
04:00-05:00 HOUR	2.3	ESE	2.5	SSE	2.9	E
05:00-06:00 HOUR	1.5	SE	2.4	ESE	3.0	ESE
06:00-07:00 HOUR	1.2	ESE	1.7	SE	3.0	ESE
07:00-08:00 HOUR	1.4	SE	1.6	ESE	2.6	ESE
08:00-09:00 HOUR	1.1	SSE	1.7	ESE	2.6	ESE

ภาคผนวก ค-2
ระดับเสียงโดยทั่วไป



RESULT dB(A)			
N_SPHE-A2 : การวิเคราะห์ค่าความดังเสียงจากกิจกรรมในอาคาร			
AUGUST 10-11, 2024			
T24AS448-0005			
TIME*	L _{eq} 1 hour	L _{max} 1 hour	L _{eq} 1 hour
07:00-08:00 HOUR	47.4	61.1	61.1
08:00-09:00 HOUR	35.4	62.5	38.3
09:00-10:00 HOUR	43.9	59.4	39.5
10:00-11:00 HOUR	43.9	63.7	37.4
11:00-12:00 HOUR	50.7	71.7	39.0
12:00-13:00 HOUR	47.3	69.5	39.5
13:00-14:00 HOUR	46.1	68.2	41.2
14:00-15:00 HOUR	44.4	62.7	39.3
15:00-16:00 HOUR	44.5	63.3	39.5
16:00-17:00 HOUR	47.2	72.0	43.5
17:00-18:00 HOUR	43.0	65.7	44.3
18:00-19:00 HOUR	63.9	73.4	39.6
19:00-20:00 HOUR	43.2	49.6	42.5
20:00-21:00 HOUR	42.9	51.5	42.0
21:00-22:00 HOUR	42.4	46.3	41.9
22:00-23:00 HOUR	41.7	46.3	41.2
00:00-01:00 HOUR	42.3	57.3	41.1
01:00-02:00 HOUR	44.2	57.2	42.5
02:00-03:00 HOUR	41.6	54.8	40.7
03:00-04:00 HOUR	43.3	52.7	41.9
04:00-05:00 HOUR	41.7	53.7	40.3
05:00-06:00 HOUR	41.0	59.5	38.5
06:00-07:00 HOUR	42.6	62.4	39.2
L _{eq} 24 hours	45.7	49.9	
L _{dn}			49.9

RESULT dB(A)			
N_SPHE-A2 : การวิเคราะห์ค่าความดังเสียงจากกิจกรรมในอาคาร			
AUGUST 11-12, 2024			
T24AS448-0006			
TIME*	L _{eq} 1 hour	L _{max} 1 hour	L _{eq} 1 hour
07:00-08:00 HOUR	44.7	64.1	41.2
08:00-09:00 HOUR	46.5	63.5	42.0
09:00-10:00 HOUR	44.5	66.1	39.5
10:00-11:00 HOUR	41.8	62.0	37.2
11:00-12:00 HOUR	41.7	63.8	35.2
12:00-13:00 HOUR	41.4	60.4	37.2
13:00-14:00 HOUR	43.2	64.1	38.0
14:00-15:00 HOUR	41.8	67.8	36.5
15:00-16:00 HOUR	41.6	63.9	36.6
16:00-17:00 HOUR	44.0	64.7	41.2
17:00-18:00 HOUR	46.5	65.1	39.4
18:00-19:00 HOUR	41.9	61.9	39.3
19:00-20:00 HOUR	42.4	46.1	42.2
20:00-21:00 HOUR	42.7	54.5	41.6
21:00-22:00 HOUR	41.5	49.6	40.9
22:00-23:00 HOUR	41.5	41.5	40.8
00:00-01:00 HOUR	41.2	46.2	39.7
01:00-02:00 HOUR	42.5	49.6	39.3
02:00-03:00 HOUR	45.7	55.5	39.7
03:00-04:00 HOUR	41.6	62.3	44.7
04:00-05:00 HOUR	38.8	58.2	39.6
05:00-06:00 HOUR	38.6	53.8	37.2
06:00-07:00 HOUR	47.0	56.4	36.4
L _{eq} 24 hours	43.3	66.7	38.4
L _{dn}		49.3	

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 (MR. SILA BANONGDAI LUK)
 LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : โครงการก่อสร้างอาคารพาณิชย์ 12 ชั้น อาคารพาณิชย์ 12 ชั้น
CUSTOMER NAME : AFICO (HONOR) COMPANY LIMITED
ADDRESS : SUITE 2510 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAK NAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 02 999 4651 E-mail : info@afico.co.th
MEASURING SOURCE : N-SPHE-A3 : เครื่องวัดเสียงแบบเคลื่อนที่
MEASURING TYPE : AMBIENT (NOISE)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : *
MEASURING METHOD : INTEGRATED SOUND LEVEL METER
MEASURED BY : MR. JUTAPORN SUANWET

RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 21, 2024
WORK NO. : 2024-0076161
ANALYSIS NO. : T24AS448-0007

TIME*		RESULT dB(A)	
		N-SPHE-A3 : เครื่องวัดเสียงแบบเคลื่อนที่	
		T24AS448-0007	
		AUGUST 9-10, 2024	
TIME*	L _{eq} 1 hour	L _{max} 1 hour	L _{eq} 24 hours
07:00-08:00 HOUR	51.5	72.7	53.0
08:00-09:00 HOUR	61.4	75.2	59.7
09:00-10:00 HOUR	60.3	81.4	59.1
10:00-11:00 HOUR	60.5	79.2	56.2
11:00-12:00 HOUR	61.7	73.9	56.2
12:00-13:00 HOUR	59.5	68.0	55.7
13:00-14:00 HOUR	55.1	67.2	55.1
14:00-15:00 HOUR	57.8	66.9	55.5
15:00-16:00 HOUR	56.3	60.4	55.5
16:00-17:00 HOUR	58.6	68.0	56.0
17:00-18:00 HOUR	61.6	79.2	60.2
18:00-19:00 HOUR	61.4	75.3	60.2
19:00-20:00 HOUR	58.3	69.8	54.3
20:00-21:00 HOUR	55.5	75.2	58.7
21:00-22:00 HOUR	61.3	72.6	60.7
22:00-23:00 HOUR	60.6	72.9	59.9
23:00-00:00 HOUR	60.1	76.5	59.0
00:00-01:00 HOUR	53.6	72.8	53.7
01:00-02:00 HOUR	55.3	71.9	52.4
02:00-03:00 HOUR	60.5	76.6	59.5
03:00-04:00 HOUR	60.7	72.0	59.7
04:00-05:00 HOUR	61.5	75.4	59.9
05:00-06:00 HOUR	61.4	72.4	59.7
06:00-07:00 HOUR	57.9	72.6	52.8
L _{eq} 24 hours	59.9	66.3	66.3

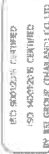
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RESULT dB(A)
N-SPHE-A3 : เครื่องวัดเสียงแบบเคลื่อนที่
AUGUST 10-11, 2024
T24AS448-0008

TIME*	L _{eq} 1 hour	L _{max} 1 hour	L _{eq} 24 hours
07:00-08:00 HOUR	53.7	71.0	52.7
08:00-09:00 HOUR	60.8	69.9	59.5
09:00-10:00 HOUR	61.7	75.1	59.5
10:00-11:00 HOUR	61.9	79.1	66.4
11:00-12:00 HOUR	58.9	76.0	56.7
12:00-13:00 HOUR	57.7	70.9	55.3
13:00-14:00 HOUR	60.2	70.1	56.7
14:00-15:00 HOUR	59.9	68.3	56.2
15:00-16:00 HOUR	58.0	68.5	55.9
16:00-17:00 HOUR	58.3	76.3	56.0
17:00-18:00 HOUR	59.4	72.2	56.2
18:00-19:00 HOUR	55.9	72.6	52.9
19:00-20:00 HOUR	59.2	67.8	57.6
20:00-21:00 HOUR	59.5	73.0	56.5
21:00-22:00 HOUR	59.5	71.1	58.7
22:00-23:00 HOUR	57.9	70.2	57.5
23:00-00:00 HOUR	54.7	65.2	51.4
00:00-01:00 HOUR	57.4	71.2	55.3
01:00-02:00 HOUR	58.7	75.1	57.5
02:00-03:00 HOUR	60.1	70.5	59.5
03:00-04:00 HOUR	59.5	68.1	53.8
04:00-05:00 HOUR	59.7	74.7	58.9
05:00-06:00 HOUR	59.7	71.5	59.3
06:00-07:00 HOUR	59.7	59.2	59.2
L _{eq} 24 hours	59.2	66.3	66.3

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RESULT dB(A)		
N_SPHE-A3 : บ้านพักในหมู่บ้านโครงการ		
AUGUST 11-12, 2024		
T24AS448-0009		
TIME*	L _{eq} 1 hour	L _{max} 1 hour
07:00-08:00 HOUR	57.6	76.8
08:00-09:00 HOUR	61.5	76.8
09:00-10:00 HOUR	62.5	82.6
10:00-11:00 HOUR	61.4	83.4
11:00-12:00 HOUR	63.0	75.6
12:00-13:00 HOUR	55.7	61.5
13:00-14:00 HOUR	59.7	71.4
14:00-15:00 HOUR	61.1	76.3
15:00-16:00 HOUR	56.4	72.9
16:00-17:00 HOUR	51.0	75.6
17:00-18:00 HOUR	54.5	68.6
18:00-19:00 HOUR	51.2	72.2
19:00-20:00 HOUR	47.7	67.5
20:00-21:00 HOUR	52.9	61.9
21:00-22:00 HOUR	50.4	64.6
22:00-23:00 HOUR	49.2	60.3
23:00-00:00 HOUR	50.3	65.9
00:00-01:00 HOUR	49.1	65.4
01:00-02:00 HOUR	43.0	55.8
02:00-03:00 HOUR	48.9	61.9
03:00-04:00 HOUR	49.1	66.0
04:00-05:00 HOUR	53.1	68.5
05:00-06:00 HOUR	49.7	64.1
06:00-07:00 HOUR	51.8	69.4
L _{eq} 24 hours		58.3
L _{den}		58.6

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(MR SIDA SANGKATJAIJK)
LABORATORY SUPERVISOR

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2024-U076161

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- End of Analysis Report -

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ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบสาธารณูปโภคและสาธารณูปการในเขตเทศบาลเมืองลำปาง
CUSTOMER NAME : AFICO (KONGKAT) COMPANY LIMITED
ADDRESS : ซУTE 2610 EMPHRE TOWER, 1 SOUTH SATHORN ROAD YAK NAKA SATHORN LAMKONG, 31120
CONTACT INFORMATION : TEL : 08 9048 4651 e-mail : jai@afico.co.th
MEASURING PLACE : N_SPHE-A1 : บ้านพักในหมู่บ้านโครงการ
MEASURING TYPE : AMBIENT (AMBIANCE NOISE)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME : -
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION
MEASURED BY : MR JUMWEN SUWAPUT

RECEIVED DATE : AUGUST 9-12, 2024
ANALYTICAL DATE : AUGUST 9-12, 2024
ISSUE DATE : AUGUST 24, 2024
REPORT NO. : 2024-U076165

WORK NO. : 2023-027622
ANALYSIS NO. : T24AS448-0001 T24AC416-0003

DATE	TIME*	RESULT (dB(A))			
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL
AUGUST 9, 2024 T24AS448-0001	DAY TIME				
	07:00-08:00 HOUR	48.1 ^B	41.8 ^B	45.9 ^B	36.5 ^B
	08:00-09:00 HOUR	45.7 ^B	41.7 ^B	43.5 ^B	39.8 ^B
	09:00-10:00 HOUR	45.1 ^B	37.7 ^B	44.2 ^B	36.8 ^B
	10:00-11:00 HOUR	43.4 ^B	40.2 ^B	40.6 ^B	36.9 ^B
	11:00-12:00 HOUR	45.8 ^B	38.2 ^B	45.0 ^B	37.0 ^B
	12:00-13:00 HOUR	35.2 ^B	40.2 ^B	43.5 ^B	37.8 ^B
	13:00-14:00 HOUR	41.6 ^B	45.4 ^B	40.8 ^B	36.6 ^B
	14:00-15:00 HOUR	45.1 ^B	42.2 ^B	43.9 ^B	39.8 ^B
	15:00-16:00 HOUR	45.3 ^B	42.5 ^B	42.1 ^B	41.4 ^B
	16:00-17:00 HOUR	42.5 ^B	31.4 ^B	36.0 ^B	39.3 ^B
	17:00-18:00 HOUR	41.6 ^B	33.3 ^B	37.7 ^B	38.3 ^B
AUGUST 10, 2024 T24AS448-0002	DAY TIME				
	08:00-09:00 HOUR	46.3 ^B	45.1 ^B	32.1 ^B	35.6 ^B
	09:00-10:00 HOUR	46.3 ^B	47.1 ^B	32.2 ^B	36.5 ^B
	10:00-11:00 HOUR	43.1 ^B	48.8 ^B	41.1 ^B	48.3 ^B
	11:00-12:00 HOUR	46.1 ^B	46.2 ^B	43.7 ^B	43.7 ^B
	NIGHT TIME				
	22:00-22:05 HOUR	48.6 ^B	46.0 ^B	45.7 ^B	45.4 ^B
	22:05-22:10 HOUR	47.8 ^B	45.0 ^B	45.0 ^B	45.4 ^B
	22:10-22:15 HOUR	47.9 ^B	46.0 ^B	46.4 ^B	46.4 ^B
	22:15-22:20 HOUR	48.3 ^B	46.0 ^B	45.7 ^B	46.3 ^B
	22:20-22:25 HOUR	48.4 ^B	45.9 ^B	45.1 ^B	45.3 ^B
	22:25-22:30 HOUR	42.6 ^B	46.9 ^B	46.2 ^B	46.3 ^B
AUGUST 11, 2024 T24AS448-0003	DAY TIME				
	08:00-09:00 HOUR	48.6 ^B	47.5 ^B	45.0 ^B	47.0 ^B
	09:00-10:00 HOUR	43.6 ^B	47.5 ^B	45.1 ^B	47.0 ^B
	10:00-11:00 HOUR	48.1 ^B	47.5 ^B	47.0 ^B	47.0 ^B
	11:00-12:00 HOUR	48.1 ^B	46.4 ^B	47.0 ^B	47.0 ^B
	12:00-13:00 HOUR	48.5 ^B	46.4 ^B	47.3 ^B	45.8 ^B
	13:00-14:00 HOUR	48.1 ^B	45.4 ^B	45.2 ^B	45.6 ^B
	14:00-15:00 HOUR	48.2 ^B	46.6 ^B	46.1 ^B	46.0 ^B
	15:00-16:00 HOUR	48.0 ^B	45.6 ^B	45.6 ^B	46.0 ^B
	16:00-17:00 HOUR	47.9 ^B	46.6 ^B	45.0 ^B	46.0 ^B
	17:00-18:00 HOUR	47.9 ^B	46.6 ^B	45.0 ^B	46.0 ^B
	18:00-19:00 HOUR	47.9 ^B	46.6 ^B	45.0 ^B	46.0 ^B

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BY BSI GROUP (THAILAND) CO., LTD.

DATE	TIME ^a	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 5, 2024 T244S448-0001	23:15-23:20 HOUR	48.9 ^b	45.9 ^{...}	45.9 ^b	45.4 ^{...}	1.5
	23:20-23:25 HOUR	47.5 ^b	45.9 ^{...}	45.4 ^b	45.4 ^{...}	<0.8 ^b
	23:25-23:30 HOUR	47.6 ^b	45.9 ^{...}	45.8 ^b	45.4 ^{...}	<0.8 ^b
	23:30-23:35 HOUR	47.5 ^b	45.4 ^{...}	46.4 ^b	44.9 ^{...}	1.5
	23:35-23:40 HOUR	47.5 ^b	45.4 ^{...}	46.4 ^b	44.9 ^{...}	1.5
	23:40-23:45 HOUR	47.9 ^b	45.4 ^{...}	47.2 ^b	44.9 ^{...}	2.3
	23:45-23:50 HOUR	47.9 ^b	46.7 ^{...}	44.6 ^b	45.7 ^{...}	<0.8 ^b
	23:50-23:55 HOUR	47.8 ^b	46.7 ^{...}	44.3 ^b	45.2 ^{...}	<0.8 ^b
	23:55-00:00 HOUR	47.5 ^b	46.7 ^{...}	42.8 ^b	45.2 ^{...}	<0.8 ^b
	NIGHT TIME ^a	47.5 ^b	45.2 ^{...}	46.6 ^b	44.7 ^{...}	1.9
AUGUST 10, 2024 T244S448-0001	00:00-00:05 HOUR	47.5 ^b	45.2 ^{...}	46.7 ^b	44.7 ^{...}	2.0
	00:05-00:10 HOUR	47.2 ^b	45.2 ^{...}	46.0 ^b	44.7 ^{...}	1.3
	00:10-00:15 HOUR	47.1 ^b	45.7 ^{...}	44.5 ^b	45.1 ^{...}	<0.8 ^b
	00:15-00:20 HOUR	47.0 ^b	45.7 ^{...}	44.2 ^b	45.1 ^{...}	<0.8 ^b
	00:20-00:25 HOUR	47.1 ^b	45.7 ^{...}	44.5 ^b	45.1 ^{...}	<0.8 ^b
	00:25-00:30 HOUR	47.3 ^b	45.2 ^{...}	44.0 ^b	44.4 ^{...}	1.9
	00:30-00:35 HOUR	46.7 ^b	45.2 ^{...}	44.0 ^b	44.4 ^{...}	<0.8 ^b
	00:35-00:40 HOUR	46.7 ^b	45.2 ^{...}	42.1 ^b	44.9 ^{...}	<0.8 ^b
	00:40-00:45 HOUR	46.4 ^b	45.5 ^{...}	42.4 ^b	44.9 ^{...}	<0.8 ^b
	00:45-00:50 HOUR	46.5 ^b	45.5 ^{...}	43.9 ^b	44.9 ^{...}	<0.8 ^b
01:00-01:05 HOUR	01:00-01:05 HOUR	46.7 ^b	45.6 ^{...}	43.3 ^b	44.8 ^{...}	<0.8 ^b
	01:05-01:10 HOUR	46.3 ^b	45.6 ^{...}	41.0 ^b	44.8 ^{...}	<0.8 ^b
	01:10-01:15 HOUR	46.1 ^b	45.6 ^{...}	40.1 ^b	44.8 ^{...}	<0.8 ^b
	01:15-01:20 HOUR	46.5 ^b	44.8 ^{...}	44.6 ^b	44.2 ^{...}	<0.8 ^b
	01:20-01:25 HOUR	46.6 ^b	44.8 ^{...}	44.7 ^b	44.2 ^{...}	<0.8 ^b
	01:25-01:30 HOUR	46.3 ^b	44.8 ^{...}	43.8 ^b	44.2 ^{...}	<0.8 ^b
	01:30-01:35 HOUR	46.6 ^b	45.5 ^{...}	42.9 ^b	44.2 ^{...}	<0.8 ^b
	01:35-01:40 HOUR	47.7 ^b	45.5 ^{...}	46.7 ^b	44.2 ^{...}	2.5
	01:40-01:45 HOUR	47.0 ^b	45.5 ^{...}	45.9 ^b	44.2 ^{...}	1.7
	01:45-01:50 HOUR	47.2 ^b	45.3 ^{...}	45.6 ^b	44.0 ^{...}	1.6
01:50-01:55 HOUR	01:50-01:55 HOUR	46.4 ^b	45.3 ^{...}	43.0 ^b	44.0 ^{...}	<0.8 ^b
	01:55-02:00 HOUR	47.4 ^b	45.3 ^{...}	45.2 ^b	44.0 ^{...}	2.2
	02:00-02:05 HOUR	47.5 ^b	45.0 ^{...}	47.0 ^b	43.5 ^{...}	3.6
	02:05-02:10 HOUR	46.9 ^b	45.0 ^{...}	45.4 ^b	43.5 ^{...}	1.9
	02:10-02:15 HOUR	46.5 ^b	45.0 ^{...}	44.1 ^b	43.5 ^{...}	<0.8 ^b
	02:15-02:20 HOUR	45.9 ^b	44.0 ^{...}	44.5 ^b	42.7 ^{...}	1.3
	02:20-02:25 HOUR	46.6 ^b	44.0 ^{...}	46.2 ^b	43.7 ^{...}	3.5
	02:25-02:30 HOUR	45.9 ^b	44.0 ^{...}	44.4 ^b	42.7 ^{...}	1.7
	02:30-02:35 HOUR	46.3 ^b	44.2 ^{...}	45.1 ^b	43.1 ^{...}	2.0
	02:35-02:40 HOUR	46.1 ^b	44.2 ^{...}	44.6 ^b	43.1 ^{...}	1.5
02:40-02:45 HOUR	02:40-02:45 HOUR	46.2 ^b	44.2 ^{...}	44.8 ^b	43.1 ^{...}	1.7
	02:45-02:50 HOUR	46.9 ^b	45.3 ^{...}	45.0 ^b	43.8 ^{...}	1.2

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DATE	TIME ^a	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 10, 2024 T244S448-0001	02:50-02:55 HOUR	47.1 ^b	45.3 ^{...}	46.7 ^b	43.9 ^{...}	1.9
	02:55-03:00 HOUR	47.4 ^b	45.3 ^{...}	46.2 ^b	43.6 ^{...}	2.4
	03:00-03:05 HOUR	46.7 ^b	44.9 ^{...}	41.9 ^b	43.6 ^{...}	<0.8 ^b
	03:05-03:10 HOUR	46.8 ^b	44.9 ^{...}	41.5 ^b	43.6 ^{...}	<0.8 ^b
	03:10-03:15 HOUR	46.4 ^b	44.9 ^{...}	42.2 ^b	43.5 ^{...}	1.6
	03:15-03:20 HOUR	46.7 ^b	45.1 ^{...}	44.6 ^b	43.6 ^{...}	0.8
	03:20-03:25 HOUR	46.7 ^b	45.1 ^{...}	44.1 ^b	43.8 ^{...}	0.8
	03:25-03:30 HOUR	46.9 ^b	45.1 ^{...}	44.1 ^b	43.0 ^{...}	1.3
	03:30-03:35 HOUR	46.6 ^b	44.9 ^{...}	44.9 ^b	43.7 ^{...}	0.9
	03:35-03:40 HOUR	46.5 ^b	44.9 ^{...}	34.4 ^b	43.7 ^{...}	<0.8 ^b
03:40-03:45 HOUR	03:40-03:45 HOUR	46.2 ^b	44.9 ^{...}	43.1 ^b	43.7 ^{...}	<0.8 ^b
	03:45-03:50 HOUR	46.2 ^b	44.9 ^{...}	42.4 ^b	43.5 ^{...}	<0.8 ^b
	03:50-03:55 HOUR	46.5 ^b	44.9 ^{...}	34.5 ^b	43.5 ^{...}	1.0
	03:55-04:00 HOUR	46.9 ^b	44.9 ^{...}	45.5 ^b	43.5 ^{...}	2.0
	04:00-04:05 HOUR	47.2 ^b	45.4 ^{...}	42.4 ^b	43.0 ^{...}	<0.8 ^b
	04:05-04:10 HOUR	47.3 ^b	45.4 ^{...}	43.3 ^b	43.0 ^{...}	<0.8 ^b
	04:10-04:15 HOUR	48.0 ^b	46.4 ^{...}	45.9 ^b	43.0 ^{...}	0.9
	04:15-04:20 HOUR	47.6 ^b	46.0 ^{...}	45.4 ^b	44.6 ^{...}	0.8
	04:20-04:25 HOUR	46.4 ^b	46.0 ^{...}	30.2 ^b	44.6 ^{...}	<0.8 ^b
	04:25-04:30 HOUR	46.7 ^b	46.0 ^{...}	41.4 ^b	44.6 ^{...}	<0.8 ^b
04:30-04:35 HOUR	04:30-04:35 HOUR	46.9 ^b	45.6 ^{...}	44.3 ^b	44.2 ^{...}	<0.8 ^b
	04:35-04:40 HOUR	46.6 ^b	45.6 ^{...}	42.7 ^b	44.2 ^{...}	<0.8 ^b
	04:40-04:45 HOUR	46.0 ^b	45.6 ^{...}	39.2 ^b	44.2 ^{...}	<0.8 ^b
	04:45-04:50 HOUR	46.8 ^b	45.0 ^{...}	42.1 ^b	43.9 ^{...}	<0.8 ^b
	04:50-04:55 HOUR	46.1 ^b	45.0 ^{...}	42.7 ^b	43.5 ^{...}	<0.8 ^b
	04:55-05:00 HOUR	46.0 ^b	45.0 ^{...}	42.0 ^b	43.5 ^{...}	<0.8 ^b
	05:00-05:05 HOUR	45.7 ^b	44.0 ^{...}	43.3 ^b	43.4 ^{...}	1.3
	05:05-05:10 HOUR	45.2 ^b	44.0 ^{...}	41.6 ^b	42.4 ^{...}	<0.8 ^b
	05:10-05:15 HOUR	45.0 ^b	44.0 ^{...}	43.2 ^b	43.4 ^{...}	<0.8 ^b
	05:15-05:20 HOUR	44.9 ^b	43.7 ^{...}	41.6 ^b	41.9 ^{...}	<0.8 ^b
05:20-05:25 HOUR	05:20-05:30 HOUR	44.6 ^b	43.7 ^{...}	41.4 ^b	41.9 ^{...}	<0.8 ^b
	05:30-05:35 HOUR	44.9 ^b	43.7 ^{...}	41.4 ^b	40.7 ^{...}	<0.8 ^b
	05:35-05:40 HOUR	47.8 ^b	44.6 ^{...}	45.0 ^b	40.7 ^{...}	7.3
	05:40-05:45 HOUR	47.1 ^b	44.6 ^{...}	46.5 ^b	40.7 ^{...}	5.8
	05:45-05:50 HOUR	47.4 ^b	46.0 ^{...}	44.9 ^b	41.3 ^{...}	2.6
	05:50-05:55 HOUR	47.2 ^b	46.0 ^{...}	33.8 ^b	41.9 ^{...}	1.9
	05:55-06:00 HOUR	45.4 ^b	46.0 ^{...}	38.1 ^b	41.9 ^{...}	<0.8 ^b
	DAY TIME ^a	46.0 ^b	44.1 ^{...}	41.6 ^b	41.6 ^{...}	<0.8 ^b
AUGUST 16, 2024 T244S448-0002	07:00-07:05 HOUR	48.1 ^b	47.6 ^{...}	38.7 ^b	42.6 ^{...}	<0.8 ^b
	08:00-08:05 HOUR	46.0 ^b	40.3 ^{...}	44.6 ^b	35.0 ^{...}	8.6
	09:00-09:05 HOUR	44.6 ^b	39.1 ^{...}	43.2 ^b	37.4 ^{...}	5.3
	10:00-10:05 HOUR	44.5 ^b	37.8 ^{...}	45.4 ^b	35.7 ^{...}	7.7
	DAY TIME ^a	46.0 ^b	44.1 ^{...}	41.6 ^b	41.6 ^{...}	<0.8 ^b

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DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 11, 2024 T24AS48-0002	DAY TIME ²⁾					
	11:00-12:00 HOUR	51.3	53.7	<0.5	37.2	<0.5
	12:00-13:00 HOUR	48.2	50.0	<0.5	37.3	<0.5
	13:00-14:00 HOUR	47.0	49.4	45.0	36.6	7.4
	14:00-15:00 HOUR	44.3	41.3	41.3	37.4	3.9
	15:00-16:00 HOUR	44.4	40.3	42.2	36.5	5.7
	16:00-17:00 HOUR	46.8	47.5	<0.5	40.6	<0.5
	17:00-18:00 HOUR	43.6	43.8	45.9	41.1	4.8
	18:00-19:00 HOUR	47.1	44.0	44.2	36.8	7.4
	19:00-20:00 HOUR	50.3	45.7	43.2	42.7	6.0
	20:00-21:00 HOUR	45.9	43.7	39.9	42.6	<0.5
	21:00-22:00 HOUR	44.5	42.4	36.6	42.4	<0.5
	NIGHT TIME ²⁾					
	22:00-22:05 HOUR	43.7	43.0	38.7	42.4	<0.5
	22:05-22:10 HOUR	44.0	43.0	40.1	42.4	<0.5
	22:10-22:15 HOUR	44.6	42.0	47.7	42.3	<0.5
	22:15-22:20 HOUR	44.6	42.6	43.3	41.9	1.4
	22:20-22:25 HOUR	44.3	42.6	42.6	41.9	<0.5
	22:25-22:30 HOUR	44.2	42.4	42.4	41.9	<0.5
	22:30-22:35 HOUR	44.2	42.4	42.5	41.8	0.8
	22:35-22:40 HOUR	44.6	42.4	43.6	41.8	1.3
	22:40-22:45 HOUR	44.1	42.9	42.9	42.2	<0.5
	22:45-22:50 HOUR	44.4	42.9	42.0	42.2	<0.5
	22:50-22:55 HOUR	43.7	42.9	42.2	42.2	<0.5
	22:55-23:00 HOUR	43.4	42.1	40.6	41.4	0.8
	23:00-23:05 HOUR	43.9	42.1	42.7	41.4	1.2
	23:05-23:10 HOUR	44.1	42.1	42.7	41.4	<0.5
	23:10-23:15 HOUR	44.1	42.7	41.7	41.9	<0.5
	23:15-23:20 HOUR	43.9	42.7	40.6	41.9	<0.5
	23:20-23:25 HOUR	43.5	41.5	42.2	40.6	1.4
	23:25-23:30 HOUR	43.4	41.5	41.9	40.8	1.1
	23:30-23:35 HOUR	43.1	41.4	41.2	40.7	0.9
	23:35-23:40 HOUR	42.8	41.4	40.3	40.7	<0.5
	23:40-23:45 HOUR	42.2	41.4	37.7	40.7	<0.5
	NIGHT TIME ²⁾					
	00:00-00:05 HOUR	42.1	40.7	39.2	40.2	<0.5
	00:05-00:10 HOUR	42.2	40.7	39.9	40.2	<0.5
	00:10-00:15 HOUR	42.9	40.7	41.9	40.2	1.7
	00:15-00:20 HOUR	43.9	42.4	41.5	41.5	<0.5
	00:20-00:25 HOUR	44.2	42.4	42.3	41.5	0.8
	00:25-00:30 HOUR	44.2	42.4	42.3	41.5	0.6
	00:30-00:35 HOUR	44.1	42.5	41.8	41.2	<0.5

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 11, 2024 T24AS48-0002	NIGHT TIME ²⁾					
	00:40-00:45 HOUR	41.6	42.5	34.0	41.2	2.8
	00:45-00:50 HOUR	44.9	42.2	43.6	41.6	2.0
	00:50-00:55 HOUR	43.8	42.8	39.5	41.6	<0.5
	00:55-01:00 HOUR	44.2	42.8	41.6	41.6	<0.5
	01:00-01:05 HOUR	45.7	41.6	42.2	41.1	<0.5
	01:05-01:10 HOUR	46.0	44.5	43.3	43.1	<0.5
	01:10-01:15 HOUR	45.4	41.6	40.3	42.1	<0.5
	01:15-01:20 HOUR	45.4	43.7	42.7	42.6	1.1
	01:20-01:25 HOUR	45.5	43.7	43.8	42.6	1.2
	01:25-01:30 HOUR	45.3	43.7	43.2	42.6	<0.5
	01:30-01:35 HOUR	45.5	43.9	43.4	42.6	<0.5
	01:35-01:40 HOUR	46.5	43.9	45.0	42.8	3.2
	01:40-01:45 HOUR	45.5	42.9	43.3	42.8	<0.5
	01:45-01:50 HOUR	45.1	43.2	43.5	42.5	1.2
	01:50-01:55 HOUR	45.4	43.2	44.4	42.3	2.1
	01:55-02:00 HOUR	45.1	43.2	43.6	42.3	1.3
	02:00-02:05 HOUR	44.0	42.4	41.9	41.5	<0.5
	02:05-02:10 HOUR	44.5	42.4	43.2	41.5	1.7
	02:10-02:15 HOUR	45.0	42.4	44.4	41.5	2.9
	02:15-02:20 HOUR	43.7	41.9	42.5	41.2	0.8
	02:20-02:25 HOUR	42.3	41.9	40.5	41.2	<0.5
	02:25-02:30 HOUR	42.9	41.9	38.1	41.2	<0.5
	02:30-02:35 HOUR	43.0	41.0	41.6	40.2	1.4
	02:35-02:40 HOUR	42.5	41.0	40.2	40.2	<0.5
	02:40-02:45 HOUR	41.7	41.0	37.2	40.4	<0.5
	02:45-02:50 HOUR	42.2	41.3	42.3	40.4	1.9
	02:50-02:55 HOUR	43.4	41.3	42.0	40.3	1.6
	02:55-03:00 HOUR	42.3	41.3	42.0	41.7	<0.5
	03:00-03:05 HOUR	43.3	42.6	38.5	41.7	<0.5
	03:05-03:10 HOUR	43.7	42.6	40.2	41.7	2.1
	03:10-03:15 HOUR	41.8	42.6	42.8	42.2	0.9
	03:15-03:20 HOUR	44.8	43.0	43.5	42.2	<0.5
	03:20-03:25 HOUR	44.6	43.0	42.5	42.2	3.4
	03:25-03:30 HOUR	45.8	43.0	45.6	42.5	2.9
	03:30-03:35 HOUR	46.2	43.8	45.8	42.6	<0.5
	03:35-03:40 HOUR	41.9	45.8	41.4	42.6	<0.5
	03:40-03:45 HOUR	46.9	43.8	47.0	41.6	4.4
	03:45-03:50 HOUR	44.6	43.5	40.7	42.4	<0.5
	03:50-03:55 HOUR	45.3	43.5	43.6	42.4	1.1
	03:55-04:00 HOUR	44.2	43.5	42.0	42.4	<0.5
	04:00-04:05 HOUR	44.9	42.6	44.1	41.6	2.5
	04:05-04:10 HOUR	43.4	42.6	38.2	41.6	<0.5
	04:10-04:15 HOUR	43.2	42.6	37.3	41.6	<0.5
	04:15-04:20 HOUR	43.1	41.0	41.9	39.9	2.0

DATE	TIME ²⁾	RESULT (dB(A))				
		N. SPHE-A1 : บ้านปูน 6 ชั้น อาคารพาณิชย์				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 11, 2024 T24AS448-0003	NIGHT TIME ²⁾					
	04:20-04:25 HOUR	42.5 ²⁾	41.0 ²⁾	40.6 ²⁾	39.9 ²⁾	<0.8 ²⁾
	04:25-04:30 HOUR	43.8 ²⁾	41.0 ²⁾	43.8 ²⁾	39.9 ²⁾	3.7
	04:30-04:35 HOUR	44.2 ²⁾	42.4 ²⁾	43.8 ²⁾	40.9 ²⁾	2.9
	04:35-04:40 HOUR	43.9 ²⁾	42.4 ²⁾	41.5 ²⁾	40.9 ²⁾	<0.8 ²⁾
	04:40-04:45 HOUR	42.8 ²⁾	42.1 ²⁾	35.4 ²⁾	40.9 ²⁾	<0.8 ²⁾
	04:45-04:50 HOUR	42.8 ²⁾	41.3 ²⁾	40.6 ²⁾	40.3 ²⁾	<0.8 ²⁾
	04:50-04:55 HOUR	43.1 ²⁾	41.3 ²⁾	41.3 ²⁾	40.3 ²⁾	1.0
	04:55-05:00 HOUR	42.6 ²⁾	41.3 ²⁾	39.7 ²⁾	40.3 ²⁾	<0.8 ²⁾
	05:00-05:05 HOUR	42.6 ²⁾	41.3 ²⁾	40.2 ²⁾	39.5 ²⁾	<0.8 ²⁾
	05:05-05:10 HOUR	41.7 ²⁾	41.2 ²⁾	34.9 ²⁾	39.5 ²⁾	<0.8 ²⁾
	05:10-05:15 HOUR	42.2 ²⁾	41.2 ²⁾	39.3 ²⁾	39.5 ²⁾	<0.8 ²⁾
	05:15-05:20 HOUR	41.7 ²⁾	40.0 ²⁾	39.8 ²⁾	38.5 ²⁾	1.3
	05:20-05:25 HOUR	41.2 ²⁾	40.0 ²⁾	38.2 ²⁾	38.5 ²⁾	<0.8 ²⁾
	05:25-05:30 HOUR	41.4 ²⁾	40.0 ²⁾	36.8 ²⁾	38.5 ²⁾	<0.8 ²⁾
	05:30-05:35 HOUR	41.3 ²⁾	40.3 ²⁾	39.8 ²⁾	39.0 ²⁾	0.8
	05:35-05:40 HOUR	42.1 ²⁾	40.3 ²⁾	40.4 ²⁾	39.0 ²⁾	1.4
	05:40-05:45 HOUR	43.3 ²⁾	40.3 ²⁾	43.3 ²⁾	39.0 ²⁾	4.3
	05:45-05:50 HOUR	45.1 ²⁾	42.7 ²⁾	49.1 ²⁾	39.6 ²⁾	4.8
	05:50-05:55 HOUR	44.1 ²⁾	42.7 ²⁾	41.5 ²⁾	39.6 ²⁾	1.9
	05:55-06:00 HOUR	44.5 ²⁾	42.7 ²⁾	42.8 ²⁾	39.6 ²⁾	3.2
AUGUST 11, 2024 T24AS448-0003	DAY TIME ¹⁾					
	06:00-07:00 HOUR	44.5 ¹⁾	41.3 ¹⁾	41.7 ¹⁾	39.1 ¹⁾	2.6
	DAY TIME ¹⁾					
	07:00-08:00 HOUR	46.1 ¹⁾	42.8 ¹⁾	42.3 ¹⁾	41.0 ¹⁾	2.3
	08:00-09:00 HOUR	48.5 ¹⁾	43.1 ¹⁾	47.0 ¹⁾	41.4 ¹⁾	5.6
	09:00-10:00 HOUR	46.3 ¹⁾	42.8 ¹⁾	43.9 ¹⁾	40.4 ¹⁾	3.5
	10:00-11:00 HOUR	43.1 ¹⁾	40.3 ¹⁾	41.0 ¹⁾	37.3 ¹⁾	3.7
	11:00-12:00 HOUR	44.7 ¹⁾	37.5 ¹⁾	43.8 ¹⁾	35.5 ¹⁾	6.3
	12:00-13:00 HOUR	46.7 ¹⁾	55.5 ¹⁾	<0.8 ¹⁾	35.6 ¹⁾	<0.8 ¹⁾
	13:00-14:00 HOUR	43.4 ¹⁾	36.7 ¹⁾	41.0 ¹⁾	36.2 ¹⁾	4.8
	14:00-15:00 HOUR	46.5 ¹⁾	40.1 ¹⁾	45.9 ¹⁾	37.3 ¹⁾	8.6
	15:00-16:00 HOUR	43.5 ¹⁾	41.5 ¹⁾	39.1 ¹⁾	38.8 ¹⁾	<0.8 ¹⁾
	16:00-17:00 HOUR	45.9 ¹⁾	42.9 ¹⁾	42.9 ¹⁾	40.6 ¹⁾	2.3
	17:00-18:00 HOUR	47.9 ¹⁾	43.1 ¹⁾	46.1 ¹⁾	40.0 ¹⁾	6.1
	18:00-19:00 HOUR	43.6 ¹⁾	39.8 ¹⁾	41.3 ¹⁾	39.1 ¹⁾	2.2
	19:00-20:00 HOUR	44.2 ¹⁾	42.9 ¹⁾	38.3 ¹⁾	42.3 ¹⁾	<0.8 ¹⁾
	20:00-21:00 HOUR	44.4 ¹⁾	42.6 ¹⁾	39.8 ¹⁾	41.7 ¹⁾	<0.8 ¹⁾
	21:00-22:00 HOUR	43.3 ¹⁾	42.5 ¹⁾	35.3 ¹⁾	41.9 ¹⁾	<0.8 ¹⁾
	NIGHT TIME ²⁾					
	22:00-22:05 HOUR	42.7 ²⁾	41.8 ²⁾	38.2 ²⁾	41.2 ²⁾	<0.8 ²⁾
	22:05-22:10 HOUR	43.0 ²⁾	41.8 ²⁾	39.9 ²⁾	41.2 ²⁾	<0.8 ²⁾
	22:10-22:15 HOUR	43.2 ²⁾	41.8 ²⁾	40.7 ²⁾	41.2 ²⁾	<0.8 ²⁾
	22:15-22:20 HOUR	43.5 ²⁾	42.0 ²⁾	41.3 ²⁾	41.3 ²⁾	<0.8 ²⁾
	22:20-22:25 HOUR	43.5 ²⁾	42.0 ²⁾	41.1 ²⁾	41.3 ²⁾	<0.8 ²⁾
	22:25-22:30 HOUR	43.6 ²⁾	42.0 ²⁾	41.4 ²⁾	41.3 ²⁾	<0.8 ²⁾

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DATE	TIME ²⁾	RESULT (dB(A))				
		N. SPHE-A1 : บ้านปูน 6 ชั้น อาคารพาณิชย์				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 11, 2024 T24AS448-0003	NIGHT TIME ²⁾					
	22:30-22:35 HOUR	43.5 ²⁾	42.2 ²⁾	40.5 ²⁾	41.9 ²⁾	<0.8 ²⁾
	22:35-22:40 HOUR	43.1 ²⁾	42.2 ²⁾	39.0 ²⁾	41.4 ²⁾	<0.8 ²⁾
	22:40-22:45 HOUR	43.7 ²⁾	42.3 ²⁾	41.4 ²⁾	41.1 ²⁾	<0.8 ²⁾
	22:45-22:50 HOUR	45.9 ²⁾	42.9 ²⁾	42.4 ²⁾	41.1 ²⁾	1.3
	22:50-22:55 HOUR	43.1 ²⁾	42.0 ²⁾	35.4 ²⁾	41.1 ²⁾	<0.8 ²⁾
	22:55-23:00 HOUR	42.5 ²⁾	42.0 ²⁾	35.9 ²⁾	41.1 ²⁾	<0.8 ²⁾
	23:00-23:05 HOUR	42.7 ²⁾	41.7 ²⁾	36.8 ²⁾	40.7 ²⁾	<0.8 ²⁾
	23:05-23:10 HOUR	42.9 ²⁾	41.7 ²⁾	36.2 ²⁾	40.7 ²⁾	<0.8 ²⁾
	23:10-23:15 HOUR	42.6 ²⁾	41.7 ²⁾	35.7 ²⁾	40.7 ²⁾	<0.8 ²⁾
	23:15-23:20 HOUR	42.5 ²⁾	40.9 ²⁾	40.4 ²⁾	40.2 ²⁾	<0.8 ²⁾
	23:20-23:25 HOUR	42.4 ²⁾	40.9 ²⁾	40.3 ²⁾	40.2 ²⁾	<0.8 ²⁾
	23:25-23:30 HOUR	42.5 ²⁾	40.3 ²⁾	40.4 ²⁾	40.2 ²⁾	<0.8 ²⁾
	23:30-23:35 HOUR	42.2 ²⁾	40.1 ²⁾	41.1 ²⁾	39.3 ²⁾	1.6
	23:35-23:40 HOUR	42.0 ²⁾	40.1 ²⁾	40.5 ²⁾	39.3 ²⁾	1.2
	23:40-23:45 HOUR	41.8 ²⁾	40.1 ²⁾	39.9 ²⁾	39.3 ²⁾	<0.8 ²⁾
	23:45-23:50 HOUR	42.2 ²⁾	40.0 ²⁾	41.1 ²⁾	39.0 ²⁾	2.1
	23:50-23:55 HOUR	41.4 ²⁾	40.0 ²⁾	36.8 ²⁾	39.0 ²⁾	<0.8 ²⁾
	23:55-00:00 HOUR	41.2 ²⁾	40.0 ²⁾	37.3 ²⁾	39.0 ²⁾	<0.8 ²⁾
	NIGHT TIME ²⁾					
	00:00-00:05 HOUR	42.2 ²⁾	41.0 ²⁾	36.1 ²⁾	40.0 ²⁾	<0.8 ²⁾
AUGUST 11, 2024 T24AS448-0003	DAY TIME ¹⁾					
	00:05-00:10 HOUR	42.0 ¹⁾	41.0 ¹⁾	36.0 ¹⁾	40.0 ¹⁾	<0.8 ¹⁾
	00:10-00:15 HOUR	42.1 ¹⁾	40.8 ¹⁾	36.3 ¹⁾	40.1 ¹⁾	<0.8 ¹⁾
	00:15-00:20 HOUR	42.1 ¹⁾	40.8 ¹⁾	36.3 ¹⁾	40.1 ¹⁾	<0.8 ¹⁾
	00:20-00:25 HOUR	42.0 ¹⁾	40.8 ¹⁾	36.2 ¹⁾	40.1 ¹⁾	<0.8 ¹⁾
	00:25-00:30 HOUR	42.0 ¹⁾	40.9 ¹⁾	36.7 ¹⁾	40.1 ¹⁾	<0.8 ¹⁾
	00:30-00:35 HOUR	41.6 ¹⁾	40.2 ¹⁾	36.1 ¹⁾	39.4 ¹⁾	<0.8 ¹⁾
	00:35-00:40 HOUR	41.5 ¹⁾	40.3 ¹⁾	36.3 ¹⁾	39.4 ¹⁾	<0.8 ¹⁾
	00:40-00:45 HOUR	41.5 ¹⁾	40.2 ¹⁾	36.3 ¹⁾	39.4 ¹⁾	<0.8 ¹⁾
	00:45-00:50 HOUR	42.0 ¹⁾	41.3 ¹⁾	37.1 ¹⁾	39.3 ¹⁾	<0.8 ¹⁾
	00:50-00:55 HOUR	42.5 ¹⁾	41.3 ¹⁾	41.6 ¹⁾	39.3 ¹⁾	<0.8 ¹⁾
	00:55-01:00 HOUR	42.2 ¹⁾	41.3 ¹⁾	41.6 ¹⁾	39.3 ¹⁾	1.7
	01:00-01:05 HOUR	42.3 ¹⁾	42.6 ¹⁾	40.2 ¹⁾	40.0 ¹⁾	<0.8 ¹⁾
	01:05-01:10 HOUR	43.2 ¹⁾	42.6 ¹⁾	37.0 ¹⁾	40.0 ¹⁾	<0.8 ¹⁾
	01:10-01:15 HOUR	43.0 ¹⁾	42.6 ¹⁾	40.2 ¹⁾	40.0 ¹⁾	4.2
	01:15-01:20 HOUR	44.0 ¹⁾	42.3 ¹⁾	36.6 ¹⁾	41.2 ¹⁾	<0.8 ¹⁾
	01:20-01:25 HOUR	45.0 ¹⁾	43.3 ¹⁾	43.2 ¹⁾	41.7 ¹⁾	1.5
	01:25-01:30 HOUR	43.2 ¹⁾	42.3 ¹⁾	<0.8 ¹⁾	41.2 ¹⁾	<0.8 ¹⁾
	01:30-01:35 HOUR	42.3 ¹⁾	40.0 ¹⁾	41.5 ¹⁾	38.3 ¹⁾	2.2
	01:35-01:40 HOUR	41.1 ¹⁾	40.0 ¹⁾	45.0 ¹⁾	36.3 ¹⁾	6.7
	01:40-01:45 HOUR	43.0 ¹⁾	40.0 ¹⁾	43.0 ¹⁾	38.2 ¹⁾	4.7
	01:45-01:50 HOUR	43.7 ¹⁾	42.7 ¹⁾	39.9 ¹⁾	40.3 ¹⁾	<0.8 ¹⁾
	01:50-01:55 HOUR	44.4 ¹⁾	42.7 ¹⁾	42.5 ¹⁾	40.3 ¹⁾	2.2
	01:55-02:00 HOUR	46.2 ¹⁾	42.7 ¹⁾	46.6 ¹⁾	40.3 ¹⁾	6.3
	02:00-02:05 HOUR	44.5 ¹⁾	45.0 ¹⁾	<0.8 ¹⁾	39.7 ¹⁾	<0.8 ¹⁾

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DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 12, 2021 T246S448-0003	02:05:02-01 HOUR	43.5 ²	45.0 ²	44.1 ²	33.7 ²	4.4
	02:10:02-01 HOUR	43.6 ²	45.0 ²	40.1 ²	33.7 ²	<0.8 ²
	02:15:02-01 HOUR	42.5 ²	41.6 ²	38.2 ²	40.4 ²	<0.3 ²
	02:20:02-01 HOUR	43.5 ²	41.6 ²	42.0 ²	40.4 ²	1.6
	02:25:02-01 HOUR	44.1 ²	41.6 ²	43.5 ²	40.4 ²	3.1
	02:30:02-01 HOUR	47.0 ²	47.6 ²	<0.8 ²	46.5 ²	<0.8 ²
	02:35:02-01 HOUR	51.1 ²	47.6 ²	51.5 ²	46.5 ²	5.0
	02:40:02-01 HOUR	49.0 ²	47.6 ²	45.4 ²	46.5 ²	<0.8 ²
	02:45:02-01 HOUR	47.5 ²	44.6 ²	47.3 ²	43.2 ²	4.1
	02:50:02-01 HOUR	44.4 ²	44.6 ²	42.2 ²	43.2 ²	<0.8 ²
	02:55:02-01 HOUR	44.4 ²	44.6 ²	<0.8 ²	43.2 ²	<0.8 ²
	03:00:02-01 HOUR	42.8 ²	42.1 ²	37.6 ²	39.7 ²	<0.3 ²
	03:05:02-01 HOUR	42.3 ²	42.1 ²	32.1 ²	39.7 ²	<1.8 ²
	03:10:02-01 HOUR	43.5 ²	42.1 ²	40.9 ²	39.7 ²	1.2
	03:15:02-01 HOUR	44.5 ²	43.4 ²	41.0 ²	40.7 ²	<0.8 ²
	03:20:02-01 HOUR	45.0 ²	43.4 ²	42.9 ²	40.7 ²	2.2
	03:25:02-01 HOUR	45.8 ²	43.4 ²	45.1 ²	40.7 ²	4.4
	03:30:02-01 HOUR	43.1 ²	41.7 ²	40.4 ²	40.3 ²	<0.8 ²
	03:35:02-01 HOUR	42.6 ²	41.7 ²	38.4 ²	40.3 ²	<0.8 ²
	03:40:02-01 HOUR	44.0 ²	41.7 ²	43.0 ²	40.3 ²	2.7
	03:45:02-01 HOUR	42.8 ²	40.2 ²	42.4 ²	38.7 ²	3.7
	03:50:02-01 HOUR	41.8 ²	40.2 ²	39.9 ²	38.7 ²	1.2
	03:55:02-01 HOUR	41.0 ²	40.2 ²	36.2 ²	38.7 ²	<0.8 ²
	04:00:02-01 HOUR	42.3 ²	41.2 ²	38.3 ²	38.6 ²	<0.8 ²
	04:05:02-01 HOUR	41.4 ²	41.2 ²	31.7 ²	38.6 ²	<0.8 ²
	04:10:02-01 HOUR	41.0 ²	41.2 ²	<0.8 ²	38.6 ²	<0.8 ²
	04:15:02-01 HOUR	43.6 ²	38.9 ²	38.7 ²	37.2 ²	1.5
	04:20:02-01 HOUR	40.1 ²	38.9 ²	37.1 ²	37.2 ²	<0.8 ²
	04:25:02-01 HOUR	40.2 ²	38.9 ²	37.4 ²	37.2 ²	<0.8 ²
	04:30:02-01 HOUR	40.2 ²	38.3 ²	36.0 ²	37.9 ²	<0.8 ²
	04:35:02-01 HOUR	40.1 ²	39.3 ²	35.4 ²	37.9 ²	<0.8 ²
	04:40:02-01 HOUR	40.2 ²	39.3 ²	35.9 ²	37.9 ²	<0.8 ²
	04:45:02-01 HOUR	40.2 ²	38.4 ²	37.9 ²	37.0 ²	0.9
	04:50:02-01 HOUR	40.1 ²	38.4 ²	38.2 ²	37.0 ²	1.2
	04:55:02-01 HOUR	39.9 ²	38.4 ²	37.7 ²	37.0 ²	<0.8 ²
	05:00:02-01 HOUR	40.0 ²	38.6 ²	37.3 ²	37.3 ²	<0.8 ²
	05:05:02-01 HOUR	39.7 ²	38.6 ²	36.2 ²	37.3 ²	<0.8 ²
	05:10:02-01 HOUR	39.7 ²	38.6 ²	36.3 ²	37.3 ²	<0.8 ²
	05:15:02-01 HOUR	40.2 ²	38.6 ²	38.1 ²	35.7 ²	1.4
	05:20:02-01 HOUR	40.7 ²	38.6 ²	39.6 ²	36.7 ²	2.7
	05:25:02-01 HOUR	39.7 ²	38.6 ²	36.0 ²	36.7 ²	<0.8 ²
	05:30:02-01 HOUR	40.0 ²	38.6 ²	37.4 ²	37.0 ²	<0.8 ²
	05:35:02-01 HOUR	39.7 ²	38.6 ²	36.4 ²	37.0 ²	<0.8 ²
	05:40:02-01 HOUR	39.8 ²	38.6 ²	36.8 ²	37.0 ²	<0.8 ²



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ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบโครงสร้างอาคารและระบบปรับอากาศ L1543 อาคารอเนกประสงค์ ชั้น 15 อาคาร 1
CUSTOMER NAME : AFICO (THAI) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH CATHEDRAL ROAD VAN NAWA SATIEN BANGKOK 10110
CONTACT INFORMATION : TEL : 02-9698-4651 E-mail : jiraporn@afico.co.th
MEASURING PLACE : FL SPHE-A2 : บริเวณทางเดินเชื่อมระหว่างอาคาร 15 และอาคาร 16
MEASURING TYPE : AMBIENT (ANNOUNCE NOISE)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME :
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATOR
MEASURED BY : MR. JUMPON SUANPET

WORK NO. : 2023-007642

ANALYSIS NO. : T24AS48-0014 - T24AS48-0016

DATE	TIME*	RESULT (dB(A))				
		N_SPHE-A2 : บริเวณทางเดินเชื่อมระหว่างอาคาร 15 และอาคาร 16				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 9, 2024 T24AS48-0014	DAY TIME ¹⁾					
	07:00-08:00 HOUR	48.2 ¹⁾	48.1 ¹⁾	<0.8 ²⁾	35.5 ¹⁾	<0.8 ²⁾
	08:00-09:00 HOUR	49.7 ¹⁾	49.7 ¹⁾	41.8 ²⁾	37.4 ¹⁾	41.4 ²⁾
	09:00-10:00 HOUR	41.3 ¹⁾	34.7 ¹⁾	40.2 ²⁾	34.0 ¹⁾	6.2 ²⁾
	10:00-11:00 HOUR	41.4 ¹⁾	37.7 ¹⁾	30.0 ²⁾	36.0 ¹⁾	3.0 ²⁾
	11:00-12:00 HOUR	43.4 ¹⁾	37.8 ¹⁾	42.0 ²⁾	33.5 ¹⁾	8.5 ²⁾
	12:00-13:00 HOUR	43.3 ¹⁾	46.1 ¹⁾	<0.8 ²⁾	35.1 ¹⁾	<0.8 ²⁾
	13:00-14:00 HOUR	42.8 ¹⁾	39.4 ¹⁾	40.1 ²⁾	37.0 ¹⁾	3.1 ²⁾
	14:00-15:00 HOUR	44.5 ¹⁾	41.2 ¹⁾	41.8 ²⁾	38.3 ¹⁾	3.5 ²⁾
	15:00-16:00 HOUR	43.5 ¹⁾	42.4 ¹⁾	37.0 ²⁾	40.3 ¹⁾	<0.8 ²⁾
	16:00-17:00 HOUR	40.9 ¹⁾	38.2 ¹⁾	37.6 ²⁾	36.6 ¹⁾	1.0 ²⁾
	17:00-18:00 HOUR	36.9 ¹⁾	38.1 ¹⁾	35.2 ²⁾	37.0 ¹⁾	<0.8 ²⁾
	18:00-19:00 HOUR	44.6 ¹⁾	49.8 ¹⁾	<0.8 ²⁾	35.1 ¹⁾	<0.8 ²⁾
	19:00-20:00 HOUR	36.2 ¹⁾	46.2 ¹⁾	<0.8 ²⁾	45.6 ¹⁾	<0.8 ²⁾
	20:00-21:00 HOUR	48.3 ¹⁾	47.5 ¹⁾	40.4 ²⁾	47.0 ¹⁾	<0.8 ²⁾
	21:00-22:00 HOUR	46.3 ¹⁾	45.1 ¹⁾	46.3 ²⁾	44.6 ¹⁾	<0.8 ²⁾
AUGUST 12, 2024 T24AS48-0016	NIGHT TIME ²⁾					
	22:00-22:05 HOUR	45.9 ¹⁾	41.9 ¹⁾	42.0 ²⁾	44.3 ¹⁾	<0.8 ²⁾
	22:05-22:10 HOUR	45.3 ¹⁾	44.9 ¹⁾	43.7 ²⁾	41.3 ¹⁾	<0.8 ²⁾
	22:10-22:15 HOUR	45.8 ¹⁾	41.9 ¹⁾	41.5 ²⁾	44.3 ¹⁾	<0.8 ²⁾
	22:15-22:20 HOUR	47.0 ¹⁾	45.4 ¹⁾	44.9 ²⁾	44.8 ¹⁾	<0.8 ²⁾
	22:20-22:25 HOUR	37.1 ¹⁾	45.4 ¹⁾	45.2 ²⁾	44.8 ¹⁾	<0.8 ²⁾
	22:25-22:30 HOUR	46.7 ¹⁾	45.4 ¹⁾	41.1 ²⁾	44.8 ¹⁾	<0.8 ²⁾
	22:30-22:35 HOUR	46.7 ¹⁾	55.3 ¹⁾	44.8 ²⁾	44.8 ¹⁾	<0.8 ²⁾
	22:35-22:40 HOUR	46.6 ¹⁾	45.3 ¹⁾	43.8 ²⁾	44.8 ¹⁾	<0.8 ²⁾
	22:40-22:45 HOUR	47.6 ¹⁾	45.3 ¹⁾	46.7 ²⁾	44.8 ¹⁾	1.9 ²⁾
	22:45-22:50 HOUR	47.2 ¹⁾	46.2 ¹⁾	43.4 ²⁾	45.6 ¹⁾	<0.8 ²⁾
	22:50-22:55 HOUR	47.2 ¹⁾	45.2 ¹⁾	43.1 ²⁾	45.6 ¹⁾	<0.8 ²⁾
	22:55-23:00 HOUR	47.0 ¹⁾	46.2 ¹⁾	42.0 ²⁾	45.6 ¹⁾	<0.8 ²⁾
	23:00-23:05 HOUR	46.3 ¹⁾	45.0 ¹⁾	43.4 ²⁾	44.4 ¹⁾	<0.8 ²⁾
	23:05-23:10 HOUR	46.7 ¹⁾	45.0 ¹⁾	45.0 ²⁾	44.4 ¹⁾	<0.8 ²⁾
	23:10-23:15 HOUR	46.4 ¹⁾	45.0 ¹⁾	43.8 ²⁾	44.4 ¹⁾	<0.8 ²⁾

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754/10 Moo 41, Sukhumvit Road, Bangkok, Thailand 10110
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RESULT (dB(A))

DATE	TIME*	N_SPHE-A2 : บริเวณทางเดินเชื่อมระหว่างอาคาร 15 และอาคาร 16				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 9, 2024 T24AS48-0014	NIGHT TIME ²⁾					
	22:15-22:20 HOUR	46.2 ¹⁾	46.0 ¹⁾	41.3 ²⁾	44.5 ¹⁾	<0.8 ²⁾
	22:20-22:25 HOUR	45.9 ¹⁾	43.0 ¹⁾	41.5 ²⁾	44.5 ¹⁾	<0.8 ²⁾
	22:25-22:30 HOUR	46.1 ¹⁾	45.0 ¹⁾	42.9 ²⁾	43.5 ¹⁾	<0.8 ²⁾
	22:30-22:35 HOUR	45.0 ¹⁾	44.4 ¹⁾	41.9 ²⁾	43.9 ¹⁾	<0.8 ²⁾
	22:35-22:40 HOUR	45.2 ¹⁾	44.4 ¹⁾	41.1 ²⁾	43.9 ¹⁾	<0.8 ²⁾
	22:40-22:45 HOUR	45.4 ¹⁾	44.4 ¹⁾	44.9 ²⁾	43.9 ¹⁾	1.0 ²⁾
	22:45-22:50 HOUR	45.7 ¹⁾	44.7 ¹⁾	41.8 ²⁾	44.7 ¹⁾	<0.8 ²⁾
	22:50-22:55 HOUR	45.8 ¹⁾	44.7 ¹⁾	42.4 ²⁾	44.7 ¹⁾	<0.8 ²⁾
	22:55-00:00 HOUR	45.4 ¹⁾	44.7 ¹⁾	40.4 ²⁾	44.2 ¹⁾	<0.8 ²⁾
	NIGHT TIME ²⁾					
	00:00-00:05 HOUR	46.0 ¹⁾	44.5 ¹⁾	43.6 ²⁾	44.0 ¹⁾	<0.8 ²⁾
	00:05-00:10 HOUR	46.1 ¹⁾	44.5 ¹⁾	46.1 ²⁾	44.0 ¹⁾	<0.8 ²⁾
	00:10-00:15 HOUR	45.7 ¹⁾	44.5 ¹⁾	43.8 ²⁾	44.0 ¹⁾	<0.8 ²⁾
	00:15-00:20 HOUR	45.0 ¹⁾	44.1 ¹⁾	43.9 ²⁾	43.5 ¹⁾	<0.8 ²⁾
	00:20-00:25 HOUR	44.9 ¹⁾	44.1 ¹⁾	40.1 ²⁾	43.5 ¹⁾	<0.8 ²⁾
AUGUST 12, 2024 T24AS48-0016	DAY TIME ¹⁾					
	00:25-00:30 HOUR	43.7 ¹⁾	44.1 ¹⁾	43.6 ²⁾	43.5 ¹⁾	<0.8 ²⁾
	00:30-00:35 HOUR	45.4 ¹⁾	43.6 ¹⁾	43.9 ²⁾	42.8 ¹⁾	1.1 ²⁾
	00:35-00:40 HOUR	42.0 ¹⁾	43.6 ¹⁾	42.0 ²⁾	42.8 ¹⁾	<0.8 ²⁾
	00:40-00:45 HOUR	45.4 ¹⁾	43.6 ¹⁾	43.9 ²⁾	42.6 ¹⁾	1.1 ²⁾
	00:45-00:50 HOUR	44.1 ¹⁾	43.3 ¹⁾	30.4 ²⁾	42.7 ¹⁾	<0.8 ²⁾
	00:50-00:55 HOUR	44.4 ¹⁾	42.3 ¹⁾	42.7 ²⁾	42.7 ¹⁾	<0.8 ²⁾
	00:55-01:00 HOUR	45.5 ¹⁾	42.3 ¹⁾	44.5 ²⁾	42.7 ¹⁾	1.8 ²⁾
	01:00-01:05 HOUR	44.4 ¹⁾	43.1 ¹⁾	41.6 ²⁾	42.3 ¹⁾	<0.8 ²⁾
	01:05-01:10 HOUR	44.8 ¹⁾	42.1 ¹⁾	42.9 ²⁾	42.3 ¹⁾	<0.8 ²⁾
	01:10-01:15 HOUR	44.0 ¹⁾	43.1 ¹⁾	46.1 ²⁾	42.3 ¹⁾	<0.8 ²⁾
	01:15-01:20 HOUR	45.0 ¹⁾	43.5 ¹⁾	42.0 ²⁾	42.9 ¹⁾	<0.8 ²⁾
	01:20-01:25 HOUR	44.9 ¹⁾	43.5 ¹⁾	42.3 ²⁾	42.9 ¹⁾	<0.8 ²⁾
	01:25-01:30 HOUR	44.6 ¹⁾	43.5 ¹⁾	41.2 ²⁾	42.9 ¹⁾	<0.8 ²⁾
	01:30-01:35 HOUR	44.7 ¹⁾	44.2 ¹⁾	37.6 ²⁾	43.1 ¹⁾	<0.8 ²⁾
	01:35-01:40 HOUR	46.1 ¹⁾	44.2 ¹⁾	44.8 ²⁾	43.1 ¹⁾	1.5 ²⁾
AUGUST 12, 2024 T24AS48-0016	DAY TIME ¹⁾					
	01:40-01:45 HOUR	45.9 ¹⁾	41.2 ¹⁾	43.9 ²⁾	43.1 ¹⁾	0.8 ²⁾
	01:45-01:50 HOUR	45.8 ¹⁾	44.6 ¹⁾	42.0 ²⁾	42.7 ¹⁾	<0.8 ²⁾
	01:50-01:55 HOUR	45.1 ¹⁾	44.6 ¹⁾	38.9 ²⁾	42.7 ¹⁾	<0.8 ²⁾
	01:55-02:00 HOUR	45.3 ¹⁾	44.6 ¹⁾	40.2 ²⁾	42.7 ¹⁾	<0.8 ²⁾
	02:00-02:05 HOUR	46.1 ¹⁾	44.9 ¹⁾	43.0 ²⁾	43.4 ¹⁾	<0.8 ²⁾
	02:05-02:10 HOUR	45.2 ¹⁾	44.9 ¹⁾	36.5 ²⁾	42.4 ¹⁾	<0.8 ²⁾
	02:10-02:15 HOUR	44.5 ¹⁾	44.9 ¹⁾	<0.8 ²⁾	43.4 ¹⁾	<0.8 ²⁾
	02:15-02:20 HOUR	44.4 ¹⁾	43.2 ¹⁾	41.4 ²⁾	41.9 ¹⁾	<0.8 ²⁾
	02:20-02:25 HOUR	44.5 ¹⁾	43.2 ¹⁾	41.7 ²⁾	41.9 ¹⁾	<0.8 ²⁾
	02:25-02:30 HOUR	43.7 ¹⁾	43.2 ¹⁾	37.0 ²⁾	41.9 ¹⁾	<0.8 ²⁾
	02:30-02:35 HOUR	41.8 ¹⁾	44.0 ¹⁾	40.1 ²⁾	42.9 ¹⁾	<0.8 ²⁾
	02:35-02:40 HOUR	44.5 ¹⁾	44.0 ¹⁾	32.0 ²⁾	42.9 ¹⁾	<0.8 ²⁾
	02:40-02:45 HOUR	44.6 ¹⁾	44.0 ¹⁾	38.4 ²⁾	42.9 ¹⁾	<0.8 ²⁾
	02:45-02:50 HOUR	45.3 ¹⁾	45.0 ¹⁾	37.5 ²⁾	43.5 ¹⁾	<0.8 ²⁾
	02:55-03:00 HOUR	45.3 ¹⁾	45.0 ¹⁾	37.5 ²⁾	43.5 ¹⁾	<0.8 ²⁾

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2024-07-15

DATE	TIME #	N_SPHE-A2 : บ้านหินทราย ตำบลหนองจอก อำเภอเมืองสระแก้ว					RESULT (dB(A))	
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL		
APR 7 12:21 T24AS-48-0005	11:00-12:00 HOUR	53.7 ⁺	56.0 ⁺	<0.8	37.4 ⁺	<4.5 ⁺		
	12:00-13:00 HOUR	47.3 ⁺	42.3 ⁺	45.3 ⁺	37.6 ⁺	3.0		
	13:00-14:00 HOUR	43.1 ⁺	50.0 ⁺	<0.8 ⁺	23.6 ⁺	<1.8 ⁺		
	14:00-15:00 HOUR	44.5 ⁺	41.0 ⁺	41.4 ⁺	27.2 ⁺	4.2		
	15:00-16:00 HOUR	41.5 ⁺	40.2 ⁺	42.5 ⁺	36.4 ⁺	6.1		
	16:00-17:00 HOUR	47.2 ⁺	40.0 ⁺	33.5 ⁺	49.1 ⁺	<0.0 ⁺		
	17:00-18:00 HOUR	46.0 ⁺	43.7 ⁺	<6.0 ⁺	41.0 ⁺	5.0		
	18:00-19:00 HOUR	46.9 ⁺	52.5 ⁺	<0.8 ⁺	25.6 ⁺	<0.6 ⁺		
	19:00-20:00 HOUR	48.9 ⁺	47.6 ⁺	0.1 ⁺	42.0 ⁺	1.1		
	20:00-21:00 HOUR	42.9 ⁺	41.7 ⁺	57.9 ⁺	40.9 ⁺	<0.6 ⁺		
	21:00-22:00 HOUR	42.9 ⁺	42.0 ⁺	35.9 ⁺	41.2 ⁺	<0.5 ⁺		
	NIGHT TIME #							
	22:00-22:00 HOUR	41.4 ⁺	41.2 ⁺	39.3 ⁺	40.6 ⁺	<0.8 ⁺		
	22:05-22:10 HOUR	42.7 ⁺	41.2 ⁺	40.2 ⁺	40.6 ⁺	<0.6 ⁺		
	22:10-22:15 HOUR	42.3 ⁺	41.2 ⁺	38.3 ⁺	40.6 ⁺	<0.7 ⁺		
	22:15-22:20 HOUR	42.5 ⁺	41.1 ⁺	39.9 ⁺	40.5 ⁺	<0.8 ⁺		
	22:20-22:25 HOUR	42.2 ⁺	41.1 ⁺	38.9 ⁺	40.5 ⁺	<0.3 ⁺		
	22:25-22:30 HOUR	42.2 ⁺	41.1 ⁺	38.6 ⁺	40.5 ⁺	<0.8 ⁺		
	22:30-22:35 HOUR	42.6 ⁺	41.4 ⁺	40.2 ⁺	43.8 ⁺	<0.6 ⁺		
	22:35-22:40 HOUR	42.5 ⁺	41.4 ⁺	39.2 ⁺	40.2 ⁺	<0.8 ⁺		
	22:40-22:45 HOUR	43.1 ⁺	41.4 ⁺	41.3 ⁺	40.8 ⁺	<0.8 ⁺		
	22:45-22:50 HOUR	41.9 ⁺	41.1 ⁺	36.5 ⁺	40.3 ⁺	<0.6 ⁺		
	22:50-22:55 HOUR	43.1 ⁺	41.1 ⁺	41.8 ⁺	40.3 ⁺	1.5		
	22:55-23:00 HOUR	42.2 ⁺	41.1 ⁺	38.7 ⁺	40.3 ⁺	<0.2 ⁺		
23:00-23:05 HOUR	42.0 ⁺	41.9 ⁺	30.5 ⁺	41.3 ⁺	<0.8 ⁺			
23:05-23:10 HOUR	42.0 ⁺	41.9 ⁺	30.5 ⁺	41.3 ⁺	<0.6 ⁺			
23:10-23:15 HOUR	41.8 ⁺	41.2 ⁺	<0.2 ⁺	41.3 ⁺	<0.8 ⁺			
23:15-23:20 HOUR	41.8 ⁺	41.1 ⁺	36.5 ⁺	41.5 ⁺	<0.8 ⁺			
23:20-23:25 HOUR	41.8 ⁺	41.1 ⁺	35.2 ⁺	40.5 ⁺	<0.3 ⁺			
23:25-23:30 HOUR	42.4 ⁺	41.1 ⁺	32.3 ⁺	40.5 ⁺	<0.8 ⁺			
23:30-23:35 HOUR	42.2 ⁺	40.2 ⁺	40.0 ⁺	39.5 ⁺	1.4			
23:35-23:40 HOUR	41.9 ⁺	41.2 ⁺	39.9 ⁺	39.5 ⁺	<0.8 ⁺			
23:40-23:45 HOUR	41.6 ⁺	40.2 ⁺	39.0 ⁺	39.5 ⁺	<0.3 ⁺			
23:45-23:50 HOUR	41.0 ⁺	40.5 ⁺	34.3 ⁺	39.3 ⁺	<0.6 ⁺			
23:50-23:55 HOUR	40.9 ⁺	40.5 ⁺	33.2 ⁺	39.8 ⁺	<0.8 ⁺			
23:55-00:00 HOUR	40.6 ⁺	40.5 ⁺	28.8 ⁺	39.3 ⁺	<0.3 ⁺			
NIGHT TIME #								
00:00-00:05 HOUR	40.8 ⁺	40.0 ⁺	36.1 ⁺	39.5 ⁺	<0.8 ⁺			
00:05-00:10 HOUR	43.3 ⁺	40.0 ⁺	43.9 ⁺	39.5 ⁺	4.1			
00:10-00:15 HOUR	40.5 ⁺	40.0 ⁺	34.6 ⁺	39.5 ⁺	<0.6 ⁺			
00:15-00:20 HOUR	41.6 ⁺	41.0 ⁺	35.8 ⁺	40.1 ⁺	<0.8 ⁺			
00:20-00:25 HOUR	42.6 ⁺	41.0 ⁺	40.2 ⁺	40.1 ⁺	<0.3 ⁺			
00:25-00:30 HOUR	42.5 ⁺	41.0 ⁺	39.9 ⁺	43.1 ⁺	<0.8 ⁺			
00:30-00:35 HOUR	42.6 ⁺	40.9 ⁺	40.7 ⁺	39.9 ⁺	0.8			
00:35-00:40 HOUR	41.6 ⁺	40.9 ⁺	37.5 ⁺	39.9 ⁺	<0.8 ⁺			

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DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 11, 2024 T24AS148-0005	NIGHT TIME ²⁷					
	03:40-04:45 HOUR	43.3 ²	40.9 ²	42.6 ²	39.9 ²	2.7
	04:45-05:50 HOUR	42.6 ²	41.8 ²	37.6 ²	40.6 ²	<0.8 ²
	05:50-06:55 HOUR	41.9 ²	41.8 ²	28.4 ²	40.6 ²	<0.8 ²
	06:55-08:00 HOUR	42.5 ²	41.8 ²	37.3 ²	40.6 ²	<0.8 ²
	08:00-09:05 HOUR	44.2 ²	42.8 ²	41.5 ²	41.7 ²	<0.8 ²
	09:05-10:10 HOUR	44.5 ²	42.8 ²	42.5 ²	41.7 ²	0.8
	10:10-11:15 HOUR	43.9 ²	42.8 ²	40.4 ²	41.7 ²	<0.8 ²
	11:15-12:20 HOUR	44.1 ²	42.3 ²	42.8 ²	41.2 ²	1.4
	12:20-01:25 HOUR	43.4 ²	42.3 ²	36.9 ²	41.2 ²	<0.8 ²
	01:25-01:30 HOUR	42.3 ²	42.3 ²	39.9 ²	41.2 ²	<0.8 ²
	01:30-01:35 HOUR	43.5 ²	43.8 ²	<0.8 ²	40.1 ²	<0.8 ²
	01:35-01:40 HOUR	45.2 ²	43.8 ²	42.6 ²	42.1 ²	<0.8 ²
	01:40-01:45 HOUR	45.4 ²	43.8 ²	43.3 ²	42.1 ²	1.2
	01:45-01:50 HOUR	45.3 ²	42.8 ²	44.8 ²	41.5 ²	3.3
	01:50-01:55 HOUR	43.3 ²	42.8 ²	35.6 ²	41.5 ²	<0.8 ²
	01:55-02:00 HOUR	43.5 ²	42.8 ²	38.2 ²	41.5 ²	<0.8 ²
	02:00-02:05 HOUR	42.1 ²	41.5 ²	36.2 ²	40.6 ²	<0.8 ²
	02:05-02:10 HOUR	42.8 ²	41.5 ²	39.7 ²	40.6 ²	<0.8 ²
	02:10-02:15 HOUR	42.7 ²	41.5 ²	39.3 ²	40.6 ²	<0.8 ²
	02:15-02:20 HOUR	42.2 ²	40.7 ²	40.0 ²	40.0 ²	<0.8 ²
	02:20-02:25 HOUR	41.9 ²	40.7 ²	38.7 ²	40.0 ²	<0.8 ²
	02:25-02:30 HOUR	41.4 ²	40.7 ²	36.5 ²	40.0 ²	<0.8 ²
	02:30-02:35 HOUR	41.5 ²	40.0 ²	39.1 ²	39.2 ²	<0.8 ²
	02:35-02:40 HOUR	41.1 ²	40.0 ²	37.8 ²	39.2 ²	<0.8 ²
	02:40-02:45 HOUR	40.2 ²	40.0 ²	36.7 ²	39.2 ²	<0.8 ²
	02:45-02:50 HOUR	40.0 ²	40.8 ²	<0.8 ²	38.7 ²	<0.8 ²
	02:50-02:55 HOUR	41.8 ²	40.8 ²	37.9 ²	39.7 ²	<0.8 ²
	02:55-03:00 HOUR	41.0 ²	40.8 ²	30.2 ²	39.7 ²	<0.8 ²
	03:00-03:05 HOUR	41.9 ²	40.2 ²	40.0 ²	39.4 ²	<0.8 ²
	03:05-03:10 HOUR	42.0 ²	40.2 ²	40.1 ²	39.4 ²	<0.8 ²
	03:10-03:15 HOUR	43.1 ²	40.2 ²	42.9 ²	41.3 ²	3.5
	03:15-03:20 HOUR	41.1 ²	42.6 ²	36.5 ²	41.3 ²	<0.8 ²
	03:20-03:25 HOUR	42.7 ²	41.6 ²	39.2 ²	41.3 ²	<0.8 ²
	03:25-03:30 HOUR	44.5 ²	42.6 ²	43.0 ²	41.3 ²	1.7
	03:30-03:35 HOUR	44.1 ²	43.8 ²	35.2 ²	41.3 ²	<0.8 ²
	03:35-03:40 HOUR	43.3 ²	43.8 ²	<0.8 ²	41.3 ²	<0.8 ²
	03:40-03:45 HOUR	44.6 ²	43.8 ²	40.9 ²	41.3 ²	<0.8 ²
	03:45-03:50 HOUR	42.5 ²	42.7 ²	<0.8 ²	41.1 ²	<0.8 ²
	03:50-03:55 HOUR	43.9 ²	42.7 ²	40.7 ²	41.1 ²	<0.8 ²
	03:55-04:00 HOUR	43.2 ²	42.7 ²	36.9 ²	41.1 ²	<0.8 ²
	04:00-04:05 HOUR	43.2 ²	41.0 ²	42.3 ²	39.9 ²	2.4
	04:05-04:10 HOUR	41.4 ²	41.0 ²	33.8 ²	39.9 ²	<0.8 ²
	04:10-04:15 HOUR	41.8 ²	41.0 ²	37.3 ²	39.9 ²	<0.8 ²
	04:15-04:20 HOUR	41.5 ²	40.7 ²	36.5 ²	39.6 ²	<0.8 ²

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DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 11, 2024 T24AS148-0006	NIGHT TIME ²⁷					
	04:20-04:25 HOUR	41.2 ²	40.7 ²	35.4 ²	39.5 ²	<0.8 ²
	04:25-04:30 HOUR	41.9 ²	40.7 ²	38.7 ²	39.6 ²	<0.8 ²
	04:30-04:35 HOUR	43.0 ²	40.0 ²	43.0 ²	38.5 ²	4.5
	04:35-04:40 HOUR	41.8 ²	40.0 ²	42.1 ²	38.5 ²	1.5
	04:40-04:45 HOUR	41.2 ²	40.0 ²	38.1 ²	38.5 ²	<0.8 ²
	04:45-04:50 HOUR	40.2 ²	39.2 ²	35.3 ²	38.1 ²	<0.8 ²
	04:50-04:55 HOUR	41.1 ²	39.2 ²	39.7 ²	38.1 ²	1.5
	04:55-05:00 HOUR	41.1 ²	39.2 ²	40.7 ²	38.1 ²	1.6
	05:00-05:05 HOUR	39.2 ²	37.4 ²	41.1 ²	36.6 ²	5.3
	05:05-05:10 HOUR	40.0 ²	37.4 ²	39.5 ²	35.8 ²	3.7
	05:10-05:15 HOUR	40.7 ²	37.4 ²	40.9 ²	35.8 ²	5.1
	05:15-05:20 HOUR	39.8 ²	37.1 ²	39.1 ²	35.9 ²	5.2
	05:20-05:25 HOUR	39.3 ²	37.4 ²	37.9 ²	35.9 ²	2.0
	05:25-05:30 HOUR	40.6 ²	37.4 ²	39.5 ²	35.9 ²	3.6
	05:30-05:35 HOUR	40.6 ²	36.7 ²	38.3 ²	35.9 ²	3.3
	05:35-05:40 HOUR	39.8 ²	36.7 ²	36.5 ²	35.9 ²	<0.8 ²
	05:40-05:45 HOUR	41.0 ²	36.7 ²	40.1 ²	35.9 ²	4.2
	05:45-05:50 HOUR	43.6 ²	40.6 ²	42.3 ²	35.9 ²	5.4
	05:50-05:55 HOUR	42.6 ²	40.6 ²	41.8 ²	36.9 ²	4.0
	05:55-06:00 HOUR	42.2 ²	40.6 ²	40.1 ²	36.9 ²	3.2
	DAY TIME ¹⁷					
	06:00-07:00 HOUR	42.6 ²	39.8 ²	39.4 ²	36.3 ²	3.1
	DAY TIME ¹⁷					
	07:00-08:00 HOUR	44.2 ²	42.6 ²	38.5 ²	40.3 ²	<0.8 ²
	08:00-09:00 HOUR	46.6 ²	42.6 ²	44.4 ²	42.9 ²	3.5
	09:00-10:00 HOUR	41.5 ²	42.2 ²	40.7 ²	40.9 ²	<0.8 ²
	10:00-11:00 HOUR	41.8 ²	39.3 ²	36.2 ²	35.3 ²	1.9
	11:00-12:00 HOUR	42.7 ²	41.3 ²	37.1 ²	34.0 ²	2.5
	12:00-12:00 HOUR	41.4 ²	38.7 ²	39.0 ²	35.0 ²	2.1
	12:00-12:00 HOUR	43.2 ²	43.9 ²	<0.8 ²	36.2 ²	<0.8 ²
	13:00-14:00 HOUR	43.8 ²	37.7 ²	43.9 ²	35.4 ²	8.5
	14:00-15:00 HOUR	41.6 ²	39.7 ²	37.1 ²	38.2 ²	<0.8 ²
	15:00-16:00 HOUR	41.6 ²	43.5 ²	34.3 ²	40.2 ²	<0.8 ²
	16:00-17:00 HOUR	44.0 ²	43.5 ²	44.9 ²	37.6 ²	7.3
	17:00-18:00 HOUR	46.3 ²	40.7 ²	44.9 ²	38.5 ²	<0.8 ²
	18:00-19:00 HOUR	41.9 ²	40.6 ²	35.9 ²	40.6 ²	<0.8 ²
	19:00-20:00 HOUR	42.4 ²	41.4 ²	35.5 ²	40.6 ²	<0.8 ²
	20:00-21:00 HOUR	42.7 ²	41.8 ²	35.3 ²	41.0 ²	<0.8 ²
	21:00-22:00 HOUR	41.5 ²	40.6 ²	34.1 ²	40.0 ²	<0.8 ²
	NIGHT TIME ²⁷					
	22:00-22:05 HOUR	40.8 ²	40.5 ²	31.6 ²	39.9 ²	<0.8 ²
	22:05-22:10 HOUR	41.0 ²	40.5 ²	34.4 ²	39.9 ²	<0.8 ²
	22:10-22:15 HOUR	41.6 ²	40.5 ²	38.2 ²	39.3 ²	<0.8 ²
	22:15-22:20 HOUR	41.8 ²	40.5 ²	38.9 ²	39.9 ²	<0.8 ²
	22:20-22:25 HOUR	41.4 ²	40.5 ²	37.0 ²	39.9 ²	<0.8 ²
	22:25-22:30 HOUR	41.5 ²	40.5 ²	37.4 ²	39.9 ²	<0.8 ²

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BY ESI GROUP (THAILAND) CO., LTD.

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 11, 2024 T24A548-0006	NIGHT TIME					
	22:30-22:35 HOUR	41.4 ^h	40.6 ^h	36.7 ^h	29.9 ^h	<0.8 ^h
	22:35-22:40 HOUR	41.5 ^h	40.6 ^h	37.3 ^h	39.9 ^h	<0.8 ^h
	22:40-22:45 HOUR	42.1 ^h	40.6 ^h	39.7 ^h	39.9 ^h	<0.8 ^h
	22:45-22:50 HOUR	42.6 ^h	39.8 ^h	42.4 ^h	36.9 ^h	3.5
	22:50-22:55 HOUR	41.8 ^h	39.8 ^h	40.4 ^h	38.9 ^h	1.5
	22:55-23:00 HOUR	40.3 ^h	39.8 ^h	33.7 ^h	38.9 ^h	<0.5 ^h
	23:00-23:05 HOUR	41.0 ^h	39.7 ^h	38.1 ^h	39.0 ^h	<0.8 ^h
	23:05-23:10 HOUR	40.6 ^h	39.7 ^h	36.3 ^h	39.0 ^h	<0.5 ^h
	23:10-23:15 HOUR	40.8 ^h	39.7 ^h	37.4 ^h	39.0 ^h	<0.8 ^h
	23:15-23:20 HOUR	40.4 ^h	39.7 ^h	34.9 ^h	38.9 ^h	<0.8 ^h
	23:20-23:25 HOUR	40.4 ^h	39.7 ^h	35.5 ^h	38.9 ^h	<0.5 ^h
	23:25-23:30 HOUR	41.2 ^h	39.7 ^h	39.9 ^h	39.9 ^h	<0.8 ^h
	23:30-23:35 HOUR	40.6 ^h	39.9 ^h	38.7 ^h	39.9 ^h	<0.8 ^h
	23:35-23:40 HOUR	40.5 ^h	39.9 ^h	38.4 ^h	39.9 ^h	<0.8 ^h
	23:40-23:45 HOUR	40.3 ^h	39.9 ^h	37.7 ^h	38.2 ^h	<0.8 ^h
August 12, 2024 T24A548-0006	23:45-23:50 HOUR	40.3 ^h	39.3 ^h	35.2 ^h	39.3 ^h	<0.8 ^h
	23:50-23:55 HOUR	39.9 ^h	39.3 ^h	34.0 ^h	39.3 ^h	<0.8 ^h
	23:55-00:00 HOUR	39.5 ^h	39.3 ^h	27.8 ^h	38.3 ^h	<0.8 ^h
	NIGHT TIME					
	00:00-00:05 HOUR	39.9 ^h	39.2 ^h	34.7 ^h	38.2 ^h	<0.8 ^h
	00:05-00:10 HOUR	40.1 ^h	39.2 ^h	35.7 ^h	38.2 ^h	<0.8 ^h
	00:10-00:15 HOUR	40.8 ^h	39.2 ^h	38.5 ^h	38.2 ^h	<0.8 ^h
	00:15-00:20 HOUR	39.9 ^h	39.2 ^h	34.6 ^h	38.4 ^h	<0.5 ^h
	00:20-00:25 HOUR	40.4 ^h	39.2 ^h	37.2 ^h	38.4 ^h	<0.8 ^h
	00:25-00:30 HOUR	40.0 ^h	39.2 ^h	35.1 ^h	38.4 ^h	<0.8 ^h
	00:30-00:35 HOUR	39.6 ^h	39.1 ^h	33.3 ^h	38.2 ^h	<0.8 ^h
	00:35-00:40 HOUR	39.3 ^h	39.1 ^h	27.5 ^h	38.2 ^h	<0.8 ^h
	00:40-00:45 HOUR	39.9 ^h	39.1 ^h	35.2 ^h	38.7 ^h	<0.8 ^h
	00:45-00:50 HOUR	40.5 ^h	39.6 ^h	36.4 ^h	38.7 ^h	<0.8 ^h
	00:50-00:55 HOUR	40.6 ^h	39.6 ^h	35.7 ^h	38.7 ^h	<0.8 ^h
	00:55-01:00 HOUR	41.1 ^h	39.6 ^h	38.2 ^h	38.7 ^h	<0.8 ^h
	01:00-01:05 HOUR	41.7 ^h	39.8 ^h	40.3 ^h	37.8 ^h	2.5
	01:05-01:10 HOUR	41.2 ^h	39.8 ^h	40.2 ^h	37.8 ^h	2.4
	01:10-01:15 HOUR	42.4 ^h	39.8 ^h	43.9 ^h	37.8 ^h	6.1
	01:15-01:20 HOUR	42.5 ^h	42.3 ^h	32.0 ^h	40.3 ^h	<0.8 ^h
	01:20-01:25 HOUR	43.5 ^h	42.3 ^h	40.5 ^h	40.3 ^h	<0.8 ^h
	01:25-01:30 HOUR	44.0 ^h	39.2 ^h	42.2 ^h	40.3 ^h	1.0
	01:30-01:35 HOUR	40.7 ^h	39.2 ^h	38.3 ^h	36.4 ^h	5.4
	01:35-01:40 HOUR	42.0 ^h	39.2 ^h	41.8 ^h	36.4 ^h	4.0
	01:40-01:45 HOUR	41.4 ^h	39.2 ^h	40.4 ^h	38.9 ^h	<0.8 ^h
	01:45-01:50 HOUR	42.7 ^h	41.4 ^h	39.8 ^h	38.5 ^h	1.0
	01:50-01:55 HOUR	44.5 ^h	41.4 ^h	41.6 ^h	38.8 ^h	5.8
	01:55-02:00 HOUR	44.5 ^h	41.4 ^h	41.6 ^h	38.8 ^h	5.8
	02:00-02:05 HOUR	45.4 ^h	42.3 ^h	45.4 ^h	38.3 ^h	7.1

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DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 12, 2024 T24A548-0006	NIGHT TIME					
	02:05-02:10 HOUR	44.5 ^h	42.3 ^h	42.4 ^h	28.3 ^h	5.1
	02:10-02:15 HOUR	44.1 ^h	42.3 ^h	42.4 ^h	39.3 ^h	4.1
	02:15-02:20 HOUR	43.5 ^h	41.4 ^h	46.3 ^h	29.7 ^h	7.6
	02:20-02:25 HOUR	41.5 ^h	41.4 ^h	38.5 ^h	32.7 ^h	<0.8 ^h
	02:25-02:30 HOUR	42.5 ^h	41.4 ^h	39.0 ^h	33.7 ^h	<0.8 ^h
	02:30-02:35 HOUR	46.6 ^h	46.3 ^h	38.7 ^h	45.2 ^h	<0.8 ^h
	02:35-02:40 HOUR	49.0 ^h	46.3 ^h	49.8 ^h	45.2 ^h	4.5
	02:40-02:45 HOUR	45.6 ^h	46.3 ^h	40.1 ^h	45.2 ^h	<0.3 ^h
	02:45-02:50 HOUR	45.9 ^h	43.0 ^h	45.9 ^h	41.6 ^h	4.1
	02:50-02:55 HOUR	43.4 ^h	43.0 ^h	45.9 ^h	41.6 ^h	<0.3 ^h
	02:55-03:00 HOUR	46.3 ^h	40.6 ^h	42.4 ^h	38.2 ^h	<0.8 ^h
	03:00-03:05 HOUR	40.5 ^h	40.6 ^h	32.4 ^h	38.2 ^h	<0.8 ^h
	03:05-03:10 HOUR	40.1 ^h	40.6 ^h	32.4 ^h	38.2 ^h	<0.8 ^h
	03:10-03:15 HOUR	42.6 ^h	42.2 ^h	35.0 ^h	39.5 ^h	1.2
	03:15-03:20 HOUR	42.7 ^h	42.2 ^h	41.3 ^h	39.5 ^h	<0.3 ^h
	03:20-03:25 HOUR	42.7 ^h	42.2 ^h	41.3 ^h	39.5 ^h	<0.8 ^h
	03:25-03:30 HOUR	42.7 ^h	42.2 ^h	39.8 ^h	39.5 ^h	1.3
	03:30-03:35 HOUR	41.8 ^h	40.1 ^h	39.8 ^h	39.7 ^h	1.1
	03:35-03:40 HOUR	40.4 ^h	40.1 ^h	31.7 ^h	38.7 ^h	<0.8 ^h
	03:40-03:45 HOUR	42.3 ^h	40.1 ^h	41.1 ^h	38.7 ^h	2.4
	03:45-03:50 HOUR	41.3 ^h	40.1 ^h	38.3 ^h	38.3 ^h	<0.8 ^h
	03:50-03:55 HOUR	39.9 ^h	40.1 ^h	<0.8 ^h	38.3 ^h	<0.5 ^h
	03:55-04:00 HOUR	38.6 ^h	40.1 ^h	<0.8 ^h	38.3 ^h	<0.8 ^h
	04:00-04:05 HOUR	40.3 ^h	34.3 ^h	26.3 ^h	36.7 ^h	<0.8 ^h
	04:05-04:10 HOUR	39.8 ^h	29.3 ^h	23.8 ^h	36.7 ^h	<0.8 ^h
	04:10-04:15 HOUR	39.6 ^h	23.3 ^h	23.8 ^h	36.7 ^h	<0.8 ^h
	04:15-04:20 HOUR	38.4 ^h	37.1 ^h	34.5 ^h	36.1 ^h	<0.8 ^h
	04:20-04:25 HOUR	38.5 ^h	37.1 ^h	38.1 ^h	36.1 ^h	<0.8 ^h
	04:25-04:30 HOUR	38.9 ^h	37.1 ^h	36.2 ^h	35.1 ^h	<0.8 ^h
	04:30-04:35 HOUR	37.9 ^h	37.1 ^h	33.2 ^h	35.9 ^h	<0.8 ^h
	04:35-04:40 HOUR	37.0 ^h	37.1 ^h	23.8 ^h	35.8 ^h	<0.8 ^h
	04:40-04:45 HOUR	38.2 ^h	37.1 ^h	34.7 ^h	35.8 ^h	<0.8 ^h
	04:45-04:50 HOUR	37.9 ^h	37.5 ^h	34.6 ^h	35.1 ^h	<0.8 ^h
	04:50-04:55 HOUR	38.5 ^h	37.5 ^h	34.6 ^h	35.1 ^h	<0.8 ^h
	04:55-05:00 HOUR	38.4 ^h	37.5 ^h	34.6 ^h	35.1 ^h	<0.8 ^h
	05:00-05:05 HOUR	38.7 ^h	37.5 ^h	34.6 ^h	35.1 ^h	<0.8 ^h
	05:05-05:10 HOUR	37.6 ^h	36.5 ^h	37.6 ^h	35.2 ^h	2.4
	05:10-05:15 HOUR	37.7 ^h	36.5 ^h	34.2 ^h	35.2 ^h	<0.8 ^h
	05:15-05:20 HOUR	38.7 ^h	36.9 ^h	37.0 ^h	35.2 ^h	1.2
	05:20-05:25 HOUR	37.6 ^h	36.9 ^h	36.8 ^h	35.8 ^h	1.0
	05:25-05:30 HOUR	37.4 ^h	36.9 ^h	30.4 ^h	35.8 ^h	<0.8 ^h
	05:30-05:35 HOUR	38.1 ^h	37.2 ^h	33.9 ^h	35.6 ^h	<0.8 ^h
	05:35-05:40 HOUR	37.4 ^h	37.2 ^h	28.0 ^h	35.5 ^h	<0.8 ^h
	05:40-05:45 HOUR	38.4 ^h	37.2 ^h	35.4 ^h	35.6 ^h	<0.8 ^h

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DATE	TIME*	RESULT (dB(A))			
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 12, 2024 T24AS448.0006	NIGHT TIME 2/				
	05:35-05:50 HOUR	38.8 ²	29.5 ³	<0.8 ¹	<0.8 ¹
	05:50-05:55 HOUR	41.0 ²	39.5 ³	38.6 ²	3.9
	DAY TIME 1/				
	05:55-06:00 HOUR	39.5 ²	39.5 ³	25.0 ²	<0.8 ¹
	06:00-07:00 HOUR	47.0 ²	49.4 ³	<0.8 ¹	<0.8 ¹

REMARK : 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC SOUND LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR,
MEASURING AS L_{eq,1 hour}.
2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC SOUND LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME,
MEASURING AS L_{max,5 minutes}.
3/ THERE IS NO IMPACT CAUSE ANNOYANCE SOUND LEVEL
4/ PERCENTILE LEVEL 98 (L₉₈) IS THE MIDDLE VALUE OF 11 TIMES MEASURING,
(55 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{res,5 minutes}) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
5/ PERCENTILE LEVEL 90 (L₉₀) IS THE MIDDLE VALUE OF 5 TIMES MEASURING,
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{res,5 minutes}) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

Sila
(MR. SILA BAUDONGJASRIK)
LABORATORY SUPERVISOR

PROJECT NAME : โครงการพัฒนาระบบการจราจรและระบบระบายน้ำในเขตเทศบาลเมืองเชียงใหม่
CUSTOMER NAME : APICO (HONGKONG) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAI HAWA SATHORN BANGKOK 10120
CONTACT INFORMATION : TEL : 06 9930 4551 E-MAIL : info@apico.com
MEASURING PLACE : N_SPHE-A3 : บริเวณใกล้กับพื้นที่จอดรถ
MEASURING TYPE : AMBIENT (AMBIENT NOISE)
MEASURING DATE : AUGUST 9-12, 2024
MEASURING TIME :
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALIBRATION
MEASURED BY : MR. JIRAWAN SUWANET
WORK NO. : 2024-U076157
ANALYSIS NO. : T24AS448.0006
RESULT (dB(A))

DATE	TIME*	N_SPHE-A3 : บริเวณใกล้กับพื้นที่จอดรถ			
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 9, 2024 T24AS448.0007	DAY TIME 1/				
	07:00-08:00 HOUR	54.5 ²	53.0 ³	48.3 ²	<0.8 ¹
	08:00-09:00 HOUR	61.4 ²	60.2 ³	55.3 ²	<0.8 ¹
	09:00-10:00 HOUR	60.8 ²	59.5 ³	54.6 ²	<0.8 ¹
	10:00-11:00 HOUR	66.5 ²	58.9 ³	56.0 ²	1.3
	11:00-12:00 HOUR	61.7 ²	60.2 ³	56.3 ²	51.8 ²
	12:00-13:00 HOUR	59.5 ²	55.5 ³	57.2 ²	54.5 ²
	13:00-14:00 HOUR	56.1 ²	55.0 ³	49.5 ²	54.2 ²
	14:00-15:00 HOUR	57.8 ²	55.7 ³	53.6 ²	54.5 ²
	15:00-16:00 HOUR	56.3 ²	55.2 ³	49.9 ²	54.5 ²
	16:00-17:00 HOUR	58.3 ²	56.3 ³	54.7 ²	54.9 ²
	17:00-18:00 HOUR	61.6 ²	60.0 ³	53.9 ²	59.1 ²
	NIGHT TIME 2/				
	18:00-19:00 HOUR	61.4 ²	61.2 ³	48.4 ²	57.2 ²
	19:00-20:00 HOUR	56.3 ²	53.2 ³	50.7 ²	52.7 ²
	20:00-21:00 HOUR	59.5 ²	58.4 ³	52.9 ²	57.2 ²
	21:00-22:00 HOUR	61.3 ²	60.6 ³	53.1 ²	59.0 ²
	22:00-22:05 HOUR	60.8 ²	60.1 ³	55.5 ²	59.4 ²
	22:05-22:10 HOUR	61.3 ²	60.1 ³	58.2 ²	59.4 ²
	22:10-22:15 HOUR	60.9 ²	60.1 ³	56.0 ²	59.4 ²
	22:15-22:20 HOUR	60.5 ²	59.9 ³	54.6 ²	58.2 ²
	22:20-22:25 HOUR	60.7 ²	59.9 ³	56.2 ²	59.2 ²
	22:25-22:30 HOUR	60.7 ²	59.9 ³	56.3 ²	59.2 ²
	22:30-22:35 HOUR	61.0 ²	59.5 ³	58.7 ²	58.9 ²
	DAY TIME 1/				
	22:35-22:40 HOUR	61.2 ²	59.5 ³	59.2 ²	58.9 ²
	22:40-22:45 HOUR	59.5 ²	59.5 ³	40.0 ²	58.9 ²
	22:45-22:50 HOUR	59.2 ²	59.3 ³	40.8 ²	58.5 ²
	22:50-22:55 HOUR	60.2 ²	59.3 ³	55.9 ²	58.5 ²
	22:55-23:00 HOUR	60.5 ²	59.3 ³	57.4 ²	58.5 ²
	23:00-23:05 HOUR	60.8 ²	60.1 ³	58.4 ²	59.3 ²
	23:05-23:10 HOUR	60.9 ²	60.1 ³	56.0 ²	59.3 ²
	23:10-23:15 HOUR	61.0 ²	60.1 ³	56.8 ²	59.3 ²

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 9, 2024 T24S448-0007	NIGHT TIME ^{2/}					
	23:15-23:20 HOUR	60.3 ²	59.0 ²	57.5 ²	57.9 ²	<0.5 ²
	23:20-23:25 HOUR	60.1 ²	59.0 ²	56.5 ²	57.9 ²	<0.5 ²
	23:25-23:30 HOUR	59.7 ²	59.0 ²	54.7 ²	57.9 ²	<0.5 ²
	23:30-23:35 HOUR	59.5 ²	58.1 ²	56.9 ²	57.5 ²	<0.5 ²
	23:35-23:40 HOUR	58.8 ²	58.1 ²	58.0 ²	57.5 ²	<0.5 ²
	23:40-23:45 HOUR	60.0 ²	58.1 ²	58.6 ²	57.5 ²	1.1
	23:45-23:50 HOUR	59.2 ²	58.6 ²	58.5 ²	57.8 ²	<0.8 ²
	23:50-23:55 HOUR	59.4 ²	58.6 ²	55.0 ²	57.8 ²	<0.8 ²
	23:55-00:00 HOUR	58.8 ²	58.6 ²	56.6 ²	57.8 ²	<0.7 ²
August 10, 2024 T24S448-0007	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	57.7 ²	58.0 ²	55.0 ²	58.1 ²	<0.8 ²
	00:05-00:10 HOUR	59.5 ²	55.8 ²	54.3 ²	58.1 ²	<0.8 ²
	00:10-00:15 HOUR	59.6 ²	58.8 ²	54.7 ²	58.1 ²	<0.8 ²
	00:15-00:20 HOUR	60.5 ²	58.9 ²	58.5 ²	58.4 ²	<0.8 ²
	00:20-00:25 HOUR	60.3 ²	58.9 ²	58.5 ²	58.4 ²	<0.8 ²
	00:25-00:30 HOUR	60.1 ²	57.8 ²	59.3 ²	57.7 ²	<0.8 ²
	00:30-00:35 HOUR	58.5 ²	57.8 ²	53.2 ²	57.7 ²	5.6
	00:35-00:40 HOUR	58.7 ²	57.8 ²	<0.8 ²	57.7 ²	<0.6 ²
	00:40-00:45 HOUR	54.6 ²	57.8 ²	47.8 ²	51.1 ²	2.1
	00:45-00:50 HOUR	52.6 ²	51.8 ²	<0.9 ²	51.1 ²	<0.8 ²
	00:50-00:55 HOUR	52.1 ²	51.8 ²	43.9 ²	51.1 ²	<0.8 ²
	00:55-01:00 HOUR	52.3 ²	51.6 ²	47.0 ²	51.1 ²	<0.8 ²
	01:00-01:05 HOUR	52.3 ²	51.6 ²	47.4 ²	51.1 ²	<0.8 ²
	01:05-01:10 HOUR	52.4 ²	51.6 ²	48.0 ²	51.1 ²	<0.8 ²
	01:10-01:15 HOUR	52.4 ²	51.6 ²	47.7 ²	51.1 ²	<0.8 ²
	01:15-01:20 HOUR	52.4 ²	51.6 ²	47.5 ²	51.1 ²	<0.8 ²
	01:20-01:25 HOUR	52.3 ²	52.1 ²	50.0 ²	51.1 ²	<0.8 ²
	01:25-01:30 HOUR	52.2 ²	52.1 ²	49.6 ²	51.8 ²	<0.8 ²
	01:30-01:35 HOUR	52.9 ²	52.1 ²	48.1 ²	51.8 ²	<0.8 ²
	01:35-01:40 HOUR	52.8 ²	52.1 ²	47.6 ²	51.8 ²	<0.8 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	01:45-01:50 HOUR	54.2 ²	59.1 ²	<0.8 ²	53.3 ²	<0.8 ²
	01:50-01:55 HOUR	53.7 ²	59.1 ²	53.3 ²	53.3 ²	<0.8 ²
	01:55-02:00 HOUR	60.8 ²	59.8 ²	58.7 ²	53.3 ²	5.4
	02:00-02:05 HOUR	60.9 ²	59.8 ²	57.4 ²	59.1 ²	<0.8 ²
	02:05-02:10 HOUR	60.9 ²	59.8 ²	57.1 ²	59.1 ²	<0.8 ²
	02:10-02:15 HOUR	61.4 ²	59.3 ²	60.2 ²	58.4 ²	1.8
	02:15-02:20 HOUR	60.6 ²	59.3 ²	57.6 ²	58.4 ²	<0.6 ²
	02:20-02:25 HOUR	60.0 ²	59.3 ²	54.8 ²	58.4 ²	<0.6 ²
	02:25-02:30 HOUR	60.1 ²	59.5 ²	54.2 ²	58.5 ²	<0.5 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	02:30-02:35 HOUR	60.2 ²	59.1 ²	53.7 ²	58.2 ²	<0.8 ²
	02:35-02:40 HOUR	60.2 ²	59.1 ²	53.7 ²	58.2 ²	<0.8 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	02:40-02:45 HOUR	60.2 ²	59.1 ²	53.7 ²	58.2 ²	<0.8 ²
	02:45-02:50 HOUR	60.2 ²	59.1 ²	53.7 ²	58.2 ²	<0.8 ²

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DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 10, 2024 T24S448-0007	NIGHT TIME ^{2/}					
	02:50-02:55 HOUR	61.2 ²	59.1 ²	56.2 ²	58.2 ²	<0.5 ²
	02:55-03:00 HOUR	60.9 ²	59.1 ²	56.3 ²	58.2 ²	1.1
	03:00-03:05 HOUR	60.6 ²	59.6 ²	56.5 ²	58.2 ²	<0.3 ²
	03:05-03:10 HOUR	60.1 ²	59.6 ²	53.0 ²	58.2 ²	<0.6 ²
	03:10-03:15 HOUR	60.3 ²	59.6 ²	54.1 ²	58.2 ²	<0.3 ²
	03:15-03:20 HOUR	60.6 ²	59.9 ²	55.3 ²	58.8 ²	<0.8 ²
	03:20-03:25 HOUR	60.6 ²	59.9 ²	55.7 ²	58.8 ²	<0.8 ²
	03:25-03:30 HOUR	60.1 ²	59.9 ²	53.5 ²	58.8 ²	<0.1 ²
	03:30-03:35 HOUR	60.5 ²	59.9 ²	54.7 ²	58.8 ²	<0.8 ²
	03:35-03:40 HOUR	61.5 ²	59.9 ²	56.2 ²	58.8 ²	<0.8 ²
	03:40-03:45 HOUR	61.0 ²	60.1 ²	56.7 ²	59.0 ²	<0.8 ²
	03:45-03:50 HOUR	61.1 ²	60.1 ²	57.0 ²	59.0 ²	<0.8 ²
	03:50-03:55 HOUR	61.2 ²	60.1 ²	57.2 ²	59.0 ²	<0.8 ²
	03:55-04:00 HOUR	61.4 ²	60.1 ²	58.7 ²	59.6 ²	<0.8 ²
	04:00-04:05 HOUR	61.4 ²	60.1 ²	57.9 ²	59.6 ²	<0.8 ²
	04:05-04:10 HOUR	61.8 ²	61.1 ²	56.5 ²	59.3 ²	<0.8 ²
	04:10-04:15 HOUR	61.8 ²	61.1 ²	58.0 ²	59.6 ²	<0.8 ²
	04:15-04:20 HOUR	61.4 ²	60.2 ²	55.9 ²	59.6 ²	<0.8 ²
	04:20-04:25 HOUR	60.9 ²	60.2 ²	56.6 ²	59.6 ²	<0.3 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	04:25-04:30 HOUR	61.1 ²	60.6 ²	51.8 ²	58.8 ²	<0.8 ²
	04:30-04:35 HOUR	61.6 ²	60.6 ²	58.0 ²	58.8 ²	<0.8 ²
	04:35-04:40 HOUR	61.5 ²	60.6 ²	57.2 ²	58.8 ²	<0.3 ²
	04:40-04:45 HOUR	61.2 ²	60.3 ²	55.6 ²	58.6 ²	<0.8 ²
	04:45-04:50 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	04:50-04:55 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	04:55-05:00 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:00-05:05 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:05-05:10 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:10-05:15 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:15-05:20 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:20-05:25 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:25-05:30 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:30-05:35 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:35-05:40 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:40-05:45 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:45-05:50 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:50-05:55 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
	05:55-06:00 HOUR	61.2 ²	60.3 ²	56.3 ²	58.6 ²	<0.8 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	06:00-06:05 HOUR	57.0 ²	54.3 ²	55.3 ²	52.9 ²	2.3
	06:05-06:10 HOUR	53.7 ²	51.4 ²	49.0 ²	50.7 ²	<0.8 ²
	06:10-06:15 HOUR	60.9 ²	59.0 ²	56.3 ²	57.6 ²	<0.8 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	06:15-06:20 HOUR	60.7 ²	58.9 ²	55.1 ²	57.7 ²	<0.8 ²
	06:20-06:25 HOUR	60.9 ²	58.9 ²	55.1 ²	57.7 ²	<0.8 ²
August 10, 2024 T24S448-0003	DAY TIME ^{2/}					
	06:25-06:30 HOUR	60.9 ²	58.9 ²	55.1 ²	57.7 ²	<0.8 ²
	06:30-06:35 HOUR	60.9 ²	58.9 ²	55.1 ²	57.7 ²	<0.8 ²

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DATE	TIME*	N_SPHE-A3 : สุ่มวัดใกล้พื้นที่โครงการ					ANNOYANCE SOUND LEVEL
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL		
AUGUST 10, 2024 T24AS4B-0008	DAY TIME ^{1/}						
	11:00-12:00 HOUR	59.9 ^{2/}	55.3 ^{2/}	58.0 ^{2/}	54.1 ^{2/}	3.9	
	12:00-13:00 HOUR	57.7 ^{2/}	54.2 ^{2/}	55.2 ^{2/}	53.4 ^{2/}	1.8	
	13:00-14:00 HOUR	60.2 ^{2/}	57.8 ^{2/}	56.5 ^{2/}	56.8 ^{2/}	<0.8 ^{2/}	
	14:00-15:00 HOUR	64.2 ^{2/}	56.9 ^{2/}	57.4 ^{2/}	55.7 ^{2/}	1.7	
	15:00-16:00 HOUR	59.9 ^{2/}	60.3 ^{2/}	<0.8 ^{2/}	53.8 ^{2/}	<0.8 ^{2/}	
	16:00-17:00 HOUR	58.0 ^{2/}	59.7 ^{2/}	<0.8 ^{2/}	53.9 ^{2/}	<0.8 ^{2/}	
	17:00-18:00 HOUR	58.5 ^{2/}	55.0 ^{2/}	55.0 ^{2/}	54.3 ^{2/}	1.6	
	18:00-19:00 HOUR	59.4 ^{2/}	56.5 ^{2/}	54.1 ^{2/}	54.6 ^{2/}	<0.8 ^{2/}	
	19:00-20:00 HOUR	56.0 ^{2/}	51.6 ^{2/}	54.0 ^{2/}	51.1 ^{2/}	2.0	
	20:00-21:00 HOUR	58.2 ^{2/}	56.6 ^{2/}	53.2 ^{2/}	55.5 ^{2/}	<0.8 ^{2/}	
	21:00-22:00 HOUR	59.5 ^{2/}	57.5 ^{2/}	55.2 ^{2/}	56.1 ^{2/}	<0.8 ^{2/}	
	NIGHT TIME ^{2/}						
	22:00-22:05 HOUR	59.8 ^{2/}	57.9 ^{2/}	58.4 ^{2/}	57.2 ^{2/}	1.2	
	22:05-22:10 HOUR	59.2 ^{2/}	57.9 ^{2/}	56.2 ^{2/}	57.2 ^{2/}	<0.8 ^{2/}	
	22:10-22:15 HOUR	60.7 ^{2/}	57.9 ^{2/}	57.2 ^{2/}	57.2 ^{2/}	1.9	
	22:15-22:20 HOUR	60.0 ^{2/}	59.0 ^{2/}	59.9 ^{2/}	56.3 ^{2/}	3.6	
	22:20-22:25 HOUR	59.4 ^{2/}	57.0 ^{2/}	58.7 ^{2/}	56.3 ^{2/}	2.4	
	22:25-22:30 HOUR	59.3 ^{2/}	57.0 ^{2/}	58.4 ^{2/}	56.3 ^{2/}	2.1	
	22:30-22:35 HOUR	58.9 ^{2/}	56.9 ^{2/}	57.5 ^{2/}	56.1 ^{2/}	1.4	
	22:35-22:40 HOUR	58.8 ^{2/}	56.9 ^{2/}	57.4 ^{2/}	56.1 ^{2/}	1.3	
	22:40-22:45 HOUR	59.1 ^{2/}	55.9 ^{2/}	58.1 ^{2/}	56.1 ^{2/}	2.0	
	22:45-22:50 HOUR	59.5 ^{2/}	57.7 ^{2/}	58.5 ^{2/}	56.9 ^{2/}	0.9	
	22:50-22:55 HOUR	59.7 ^{2/}	57.7 ^{2/}	58.5 ^{2/}	56.9 ^{2/}	1.6	
22:55-23:00 HOUR	59.6 ^{2/}	57.7 ^{2/}	58.1 ^{2/}	56.9 ^{2/}	1.2		
23:00-23:05 HOUR	54.7 ^{2/}	52.6 ^{2/}	53.6 ^{2/}	52.2 ^{2/}	1.4		
23:05-23:10 HOUR	54.1 ^{2/}	52.6 ^{2/}	51.8 ^{2/}	52.2 ^{2/}	<0.8 ^{2/}		
23:10-23:15 HOUR	57.7 ^{2/}	57.6 ^{2/}	60.4 ^{2/}	52.2 ^{2/}	3.2		
23:15-23:20 HOUR	58.7 ^{2/}	55.6 ^{2/}	57.5 ^{2/}	55.6 ^{2/}	2.0		
23:20-23:25 HOUR	58.5 ^{2/}	56.6 ^{2/}	57.0 ^{2/}	55.6 ^{2/}	1.4		
23:25-23:30 HOUR	58.5 ^{2/}	56.6 ^{2/}	57.0 ^{2/}	55.6 ^{2/}	1.4		
23:30-23:35 HOUR	58.4 ^{2/}	56.0 ^{2/}	57.4 ^{2/}	55.2 ^{2/}	2.5		
23:35-23:40 HOUR	58.1 ^{2/}	56.0 ^{2/}	55.9 ^{2/}	55.2 ^{2/}	1.7		
23:40-23:45 HOUR	57.5 ^{2/}	56.0 ^{2/}	54.9 ^{2/}	55.2 ^{2/}	<0.8 ^{2/}		
23:45-23:50 HOUR	57.3 ^{2/}	56.0 ^{2/}	55.8 ^{2/}	55.2 ^{2/}	<0.8 ^{2/}		
23:50-23:55 HOUR	56.4 ^{2/}	56.0 ^{2/}	57.8 ^{2/}	55.2 ^{2/}	2.6		
23:55-00:00 HOUR	58.4 ^{2/}	56.0 ^{2/}	57.7 ^{2/}	55.2 ^{2/}	2.5		
AUGUST 11, 2024 T24AS4B2-0008	NIGHT TIME ^{2/}						
	00:00-00:05 HOUR	54.2 ^{2/}	52.6 ^{2/}	52.6 ^{2/}	52.1 ^{2/}	<0.8 ^{2/}	
	00:05-00:10 HOUR	54.5 ^{2/}	52.6 ^{2/}	53.0 ^{2/}	52.1 ^{2/}	0.9	
	00:10-00:15 HOUR	55.0 ^{2/}	52.6 ^{2/}	54.2 ^{2/}	52.1 ^{2/}	2.1	
	00:15-00:20 HOUR	55.0 ^{2/}	52.3 ^{2/}	53.1 ^{2/}	52.9 ^{2/}	<0.8 ^{2/}	
	00:20-00:25 HOUR	55.2 ^{2/}	52.3 ^{2/}	53.7 ^{2/}	52.9 ^{2/}	0.9	
	00:25-00:30 HOUR	55.1 ^{2/}	52.3 ^{2/}	53.4 ^{2/}	52.9 ^{2/}	<0.8 ^{2/}	
	00:30-00:35 HOUR	54.9 ^{2/}	52.6 ^{2/}	54.0 ^{2/}	52.2 ^{2/}	1.8	
	00:35-00:40 HOUR	54.6 ^{2/}	52.6 ^{2/}	53.6 ^{2/}	52.2 ^{2/}	1.5	

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 11, 2024 T24AS4B-0008	NIGHT TIME ²⁾					
	00:40-00:45 HOUR	54.8 ²⁾	52.5 ²⁾	52.6 ²⁾	52.5 ²⁾	1.6
	00:45-00:50 HOUR	54.8 ²⁾	52.2 ²⁾	54.3 ²⁾	51.8 ²⁾	2.5
	00:50-00:55 HOUR	54.5 ²⁾	52.2 ²⁾	52.6 ²⁾	51.8 ²⁾	1.6
	00:55-01:00 HOUR	54.5 ²⁾	52.2 ²⁾	52.6 ²⁾	51.0 ²⁾	1.8
	01:00-01:05 HOUR	54.7 ²⁾	52.9 ²⁾	53.6 ²⁾	52.3 ²⁾	<0.8 ²⁾
	01:05-01:10 HOUR	55.9 ²⁾	52.9 ²⁾	53.8 ²⁾	52.3 ²⁾	1.5
	01:10-01:15 HOUR	54.9 ²⁾	52.9 ²⁾	53.6 ²⁾	52.3 ²⁾	1.3
	01:15-01:20 HOUR	54.8 ²⁾	53.0 ²⁾	53.1 ²⁾	52.4 ²⁾	<0.8 ²⁾
	01:20-01:25 HOUR	54.5 ²⁾	53.0 ²⁾	52.3 ²⁾	52.4 ²⁾	0.9
	01:25-01:30 HOUR	58.7 ²⁾	53.0 ²⁾	60.4 ²⁾	52.4 ²⁾	8.9
	01:30-01:35 HOUR	59.6 ²⁾	53.6 ²⁾	57.9 ²⁾	52.4 ²⁾	1.8
	01:35-01:40 HOUR	59.7 ²⁾	54.9 ²⁾	58.7 ²⁾	53.1 ²⁾	2.6
	01:40-01:45 HOUR	58.2 ²⁾	56.6 ²⁾	59.1 ²⁾	56.1 ²⁾	3.0
	01:45-01:50 HOUR	59.0 ²⁾	57.0 ²⁾	57.4 ²⁾	54.9 ²⁾	3.4
	01:50-01:55 HOUR	57.0 ²⁾	57.0 ²⁾	56.2 ²⁾	54.0 ²⁾	<0.8 ²⁾
	01:55-02:00 HOUR	56.9 ²⁾	57.0 ²⁾	<0.8 ²⁾	54.0 ²⁾	<0.8 ²⁾
	02:00-02:05 HOUR	52.2 ²⁾	56.5 ²⁾	59.9 ²⁾	54.0 ²⁾	<0.8 ²⁾
	02:05-02:10 HOUR	58.4 ²⁾	56.5 ²⁾	56.9 ²⁾	54.0 ²⁾	2.9
	02:10-02:15 HOUR	52.3 ²⁾	56.5 ²⁾	52.6 ²⁾	54.0 ²⁾	<0.8 ²⁾
	02:15-02:20 HOUR	57.0 ²⁾	56.8 ²⁾	52.7 ²⁾	53.2 ²⁾	<0.8 ²⁾
	02:20-02:25 HOUR	58.1 ²⁾	55.9 ²⁾	52.0 ²⁾	53.2 ²⁾	3.8
	02:25-02:30 HOUR	56.7 ²⁾	55.8 ²⁾	53.7 ²⁾	53.2 ²⁾	5.3
	02:30-02:35 HOUR	58.5 ²⁾	52.4 ²⁾	55.0 ²⁾	53.2 ²⁾	<0.6 ²⁾
	02:35-02:40 HOUR	59.0 ²⁾	52.4 ²⁾	56.8 ²⁾	56.4 ²⁾	<0.8 ²⁾
	02:40-02:45 HOUR	58.2 ²⁾	52.4 ²⁾	51.5 ²⁾	56.4 ²⁾	1.1
	02:45-02:50 HOUR	59.7 ²⁾	52.6 ²⁾	56.5 ²⁾	56.2 ²⁾	1.8
	02:50-02:55 HOUR	59.9 ²⁾	52.6 ²⁾	58.0 ²⁾	56.2 ²⁾	2.3
	02:55-03:00 HOUR	50.7 ²⁾	52.6 ²⁾	60.4 ²⁾	55.7 ²⁾	3.7
	03:00-03:05 HOUR	60.6 ²⁾	56.3 ²⁾	54.6 ²⁾	52.8 ²⁾	1.8
	03:05-03:10 HOUR	60.2 ²⁾	56.3 ²⁾	59.7 ²⁾	52.8 ²⁾	0.9
	03:10-03:15 HOUR	59.6 ²⁾	56.3 ²⁾	59.6 ²⁾	52.8 ²⁾	2.0
	03:15-03:20 HOUR	60.3 ²⁾	58.2 ²⁾	58.8 ²⁾	52.7 ²⁾	1.2
	03:20-03:25 HOUR	60.2 ²⁾	58.3 ²⁾	58.2 ²⁾	52.7 ²⁾	1.0
	03:25-03:30 HOUR	60.2 ²⁾	58.3 ²⁾	58.2 ²⁾	52.7 ²⁾	1.0
	03:30-03:35 HOUR	60.6 ²⁾	52.7 ²⁾	59.2 ²⁾	52.1 ²⁾	2.1
	03:35-03:40 HOUR	59.9 ²⁾	52.7 ²⁾	59.9 ²⁾	52.1 ²⁾	1.8
	03:40-03:45 HOUR	59.8 ²⁾	52.7 ²⁾	58.7 ²⁾	52.1 ²⁾	1.6
	03:45-03:50 HOUR	59.9 ²⁾	52.7 ²⁾	59.0 ²⁾	52.1 ²⁾	2.2
	03:50-03:55 HOUR	59.6 ²⁾	52.6 ²⁾	59.4 ²⁾	52.8 ²⁾	1.6
	03:55-04:00 HOUR	59.5 ²⁾	52.6 ²⁾	59.0 ²⁾	52.6 ²⁾	1.2
	04:00-04:05 HOUR	59.4 ²⁾	52.2 ²⁾	58.4 ²⁾	52.3 ²⁾	2.1
	04:05-04:10 HOUR	58.9 ²⁾	52.2 ²⁾	57.0 ²⁾	52.3 ²⁾	<0.8 ²⁾
	04:10-04:15 HOUR	59.2 ²⁾	52.2 ²⁾	57.9 ²⁾	52.3 ²⁾	1.6
	04:15-04:20 HOUR	59.4 ²⁾	52.6 ²⁾	57.9 ²⁾	52.7 ²⁾	1.2

DATE	TIME*	RESULT (dB(A))				
		N_SPHE-A3 : มัธยมศึกษาตอนต้นโรงเรียน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUG-57 11.23-4 T24AS4-0009	NIGHT TIME **					
	22:35-22:45 HOUR	45.0 [#]	43.2 ^{##}	45.9 [#]	41.9 ^{###}	3.9
	22:45-22:55 HOUR	46.2 [#]	43.2 ^{##}	45.2 [#]	42.9 ^{###}	4.3
	22:40-22:53 HOUR	44.8 [#]	43.2 ^{##}	45.7 [#]	41.9 ^{###}	0.8
	22:45-22:50 HOUR	46.2 [#]	45.4 ^{##}	46.1 [#]	45.0 ^{###}	<0.8 [#]
	22:50-22:53 HOUR	46.0 [#]	45.4 ^{##}	47.0 [#]	45.8 ^{###}	1.3
	22:55-23:00 HOUR	49.0 [#]	45.4 ^{##}	48.1 [#]	45.8 ^{###}	2.5
	23:00-23:05 HOUR	52.4 [#]	47.9 ^{##}	53.5 [#]	47.0 ^{###}	6.5
	23:05-23:10 HOUR	49.6 [#]	47.9 ^{##}	47.1 [#]	47.0 ^{###}	<0.8 [#]
	23:10-23:15 HOUR	50.3 [#]	47.9 ^{##}	49.3 [#]	47.3 ^{###}	2.3
	23:15-23:20 HOUR	50.1 [#]	48.5 ^{##}	47.2 [#]	48.1 ^{###}	2.3
	23:20-23:25 HOUR	51.6 [#]	48.6 ^{##}	51.5 [#]	48.1 ^{###}	<0.8 [#]
	23:25-23:30 HOUR	51.2 [#]	48.6 ^{##}	50.2 [#]	48.1 ^{###}	2.6
	23:35-23:45 HOUR	50.6 [#]	47.3 ^{##}	51.2 [#]	45.0 ^{###}	5.2
	23:35-23:40 HOUR	49.1 [#]	47.3 ^{##}	47.4 [#]	46.0 ^{###}	1.4
	23:45-23:50 HOUR	48.8 [#]	47.3 ^{##}	46.6 [#]	45.0 ^{###}	<0.8 [#]
AUG-57 12.23-4 T24AS4-0009	NIGHT TIME **					
	00:00-00:05 HOUR	51.8 [#]	47.1 ^{##}	53.9 [#]	46.1 ^{###}	6.9
	00:05-00:10 HOUR	48.8 [#]	47.1 ^{##}	46.9 [#]	46.1 ^{###}	0.8
	00:10-00:15 HOUR	48.8 [#]	47.1 ^{##}	47.0 [#]	46.1 ^{###}	0.9
	00:15-00:20 HOUR	49.8 [#]	45.8 ^{##}	49.2 [#]	45.5 ^{###}	4.2
	00:20-00:25 HOUR	43.9 [#]	46.4 ^{##}	47.7 [#]	45.5 ^{###}	2.2
	00:25-00:30 HOUR	49.7 [#]	45.8 ^{##}	49.6 [#]	45.5 ^{###}	4.1
	00:30-00:35 HOUR	43.6 [#]	46.5 ^{##}	46.6 [#]	45.8 ^{###}	3.8
	00:35-00:40 HOUR	48.1 [#]	46.5 ^{##}	47.0 [#]	45.5 ^{###}	<0.8 [#]
	00:40-00:45 HOUR	50.4 [#]	46.5 ^{##}	51.1 [#]	45.0 ^{###}	5.3
	00:45-00:50 HOUR	49.1 [#]	45.5 ^{##}	47.6 [#]	45.0 ^{###}	7.0
	00:50-00:55 HOUR	43.3 [#]	45.5 ^{##}	45.7 [#]	45.6 ^{###}	<0.8 [#]
	00:55-01:00 HOUR	47.8 [#]	45.5 ^{##}	46.9 [#]	46.3 ^{###}	6.3
	01:00-01:05 HOUR	42.6 [#]	40.9 ^{##}	40.2 [#]	39.9 ^{###}	0.8
	01:05-01:10 HOUR	43.3 [#]	40.9 ^{##}	42.5 [#]	39.9 ^{###}	2.6
	01:10-01:15 HOUR	43.1 [#]	40.9 ^{##}	42.0 [#]	39.9 ^{###}	2.1
01:15-01:20 HOUR	42.9 [#]	40.6 ^{##}	42.0 [#]	39.9 ^{###}	2.3	
01:20-01:25 HOUR	42.7 [#]	40.6 ^{##}	41.6 [#]	39.7 ^{###}	1.9	
01:25-01:30 HOUR	43.0 [#]	40.5 ^{##}	42.3 [#]	39.7 ^{###}	2.6	
01:30-01:35 HOUR	42.8 [#]	40.5 ^{##}	42.0 [#]	39.7 ^{###}	2.6	
01:35-01:40 HOUR	43.0 [#]	40.5 ^{##}	42.3 [#]	39.7 ^{###}	2.6	
01:40-01:45 HOUR	42.2 [#]	40.5 ^{##}	41.3 [#]	39.7 ^{###}	<0.8 [#]	
01:45-01:50 HOUR	42.7 [#]	41.9 ^{##}	38.1 [#]	40.1 ^{###}	<0.8 [#]	
01:50-01:55 HOUR	42.4 [#]	41.9 ^{##}	41.0 [#]	40.1 ^{###}	0.9	
01:55-02:00 HOUR	43.6 [#]	41.9 ^{##}	41.7 [#]	40.1 ^{###}	1.6	
02:00-02:05 HOUR	45.5 [#]	43.1 ^{##}	47.6 [#]	42.1 ^{###}	5.5	

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DATE	TIME#	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 12, 2024 T24454-48-40-09	NIGHT TIME 2					
	02:05-02:10 HOUR	45.0	43.1	43.4	42.1	1.3
	02:10-02:15 HOUR	45.3	43.1	44.3	42.1	2.2
	02:15-02:20 HOUR	50.4	48.0	49.7	46.1	3.6
	02:20-02:25 HOUR	52.0	48.0	52.9	46.1	6.8
	02:25-02:30 HOUR	49.7	48.0	47.8	46.1	1.7
	02:30-02:35 HOUR	47.9	45.5	47.2	45.1	2.1
	02:35-02:40 HOUR	49.4	45.5	50.0	45.1	4.9
	02:40-02:45 HOUR	48.3	45.5	48.1	45.1	3.0
	02:45-02:50 HOUR	48.8	47.7	45.3	43.2	2.1
	02:50-02:55 HOUR	49.3	47.7	47.1	43.2	3.9
	02:55-03:00 HOUR	49.1	47.2	46.3	43.2	3.1
	03:00-03:05 HOUR	46.6	45.4	43.4	42.2	1.2
	03:05-03:10 HOUR	46.9	45.4	38.8	42.2	<0.8
	03:10-03:15 HOUR	45.1	45.4	<0.8	42.2	<0.8
	03:15-03:20 HOUR	48.8	43.7	50.2	41.9	6.3
	03:20-03:25 HOUR	48.0	43.7	49.0	41.9	7.1
	03:25-03:30 HOUR	46.1	43.7	50.6	41.9	8.7
	03:30-03:35 HOUR	51.4	50.2	48.0	42.1	5.9
	03:35-03:40 HOUR	51.2	50.2	47.0	42.1	4.9
	03:40-03:45 HOUR	51.0	50.2	46.0	42.1	3.9
	03:45-03:50 HOUR	49.6	47.2	48.8	45.3	3.5
	03:50-03:55 HOUR	48.6	47.2	46.0	45.3	<0.8
	03:55-04:00 HOUR	49.1	47.2	47.6	45.3	2.3
	04:00-04:05 HOUR	49.4	47.4	48.1	45.3	2.8
	04:05-04:10 HOUR	49.3	47.4	47.8	45.3	2.5
	04:10-04:15 HOUR	49.1	47.4	47.3	45.3	2.0
	04:15-04:20 HOUR	49.0	46.4	48.6	45.4	3.2
	04:20-04:25 HOUR	52.2	46.4	53.9	45.4	6.5
	04:25-04:30 HOUR	48.6	46.4	47.6	45.4	2.2
	04:30-04:35 HOUR	49.7	47.4	48.8	45.8	3.0
	04:35-04:40 HOUR	51.2	47.4	51.9	45.8	6.1
	04:40-04:45 HOUR	50.6	47.4	50.8	45.8	5.0
	04:45-04:50 HOUR	51.6	46.5	53.0	45.3	7.7
	04:50-04:55 HOUR	48.4	46.5	46.9	45.3	1.6
	04:55-05:00 HOUR	50.2	46.5	50.8	45.3	5.6
	05:00-05:05 HOUR	50.0	45.9	50.8	45.1	5.7
	05:05-05:10 HOUR	47.7	45.9	46.0	45.1	0.9
	05:10-05:15 HOUR	47.3	45.9	44.8	45.1	<0.8
	05:15-05:20 HOUR	48.6	48.8	<0.8	45.9	<0.8
	05:20-05:25 HOUR	51.1	48.8	50.2	45.9	4.3
	05:25-05:30 HOUR	49.7	48.8	45.6	45.9	<0.8
	05:30-05:35 HOUR	50.5	48.7	48.7	46.2	2.5
	05:35-05:40 HOUR	50.2	48.7	47.2	46.2	1.5
	05:40-05:45 HOUR	50.3	48.7	48.2	46.2	2.0

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DATE	TIME#	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
August 12, 2024 T24454-48-40-09	NIGHT TIME 2					
	05:45-05:50 HOUR	43.8	48.1	47.8	45.9	2.0
	05:50-05:55 HOUR	50.5	46.1	49.3	45.9	3.9
	DAY TIME 1					
	05:55-06:00 HOUR	48.9	48.1	44.1	45.9	<0.8
	06:00-07:00 HOUR	51.8	56.1	46.9	46.9	<0.8

REMARK: 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR): SPECIFIC SOUND LEVEL OCCUR IN RESIDENTIAL AREA OR NIGHT TIME, MEASURING AS Laboratory.
2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR): SPECIFIC SOUND LEVEL OCCUR IN RESIDENTIAL AREA OR NIGHT TIME, MEASURING AS Laboratory.
3/ THERE IS NO IMPACT CAUSE ANNOYANCE SOUND LEVEL
4* PERCENTILE LEVEL 90 (L₉₀) IS THE MIDDLE VALUE OF 11 TIMES MEASURING.
(55 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{RES}) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
*** PERCENTILE LEVEL 90 (L₉₀) IS THE MIDDLE VALUE OF 3 TIMES MEASURING.
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{RES}) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

hid 72
(MR. SILA BAKONGDAIRUK)
LABORATORY SUPERVISOR

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ภาคผนวก ค-3
ทรัพยากรดิน



ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจบิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ภูซอมเหนือและสินภูซอม จังหวัดอุดรธานี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicollc.com
SAMPLING SOURCE : S_SPHE-A1 : พื้นที่ฐานเจาะ บ้านห้วยโซ่ ตำบลแสงสว่าง อำเภอหนองแสง
SAMPLE TYPE : SOIL **RECEIVED DATE** : SEPTEMBER 19, 2024
SAMPLING DATE : SEPTEMBER 17, 2024 **ANALYTICAL DATE** : SEPTEMBER 19 - OCTOBER 15, 2024
SAMPLING TIME : 09:30 HOUR **ISSUE DATE** : OCTOBER 15, 2024
SAMPLING METHOD ° : UNDISTURBED **REPORT NO.** : 2024-U095828
SAMPLING BY ° : MR PRACHCHAPOL SOPHA **WORK NO.** : 2023-007682
ANALYZED BY : MISS JINTASUPA PLIANSRI **ANALYSIS NO.** : T24AV712-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A1 T24AV712-0001		
pH (1:1) ^b	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	7.4 (25°C)	-	-
ELECTRICAL CONDUCTIVITY (1:5) ^c	dS/m	ELECTRICAL CONDUCTIVITY METHOD	0.012 (25°C)	-	0.001
SALINITY (1:5) ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD	< 0.1	-	0.1
CHLORIDE ^c	% w/w	BS 1377 : PART3 : 1990	ND	-	0.01
METALS					
ARSENIC (As) ^c	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1992: 7061A)	16.3	≤ 25	0.100
IRON (Fe) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	165,175	-	0.500
ZINC (Zn) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	16.0	-	0.350
SELENIUM (Se) ^c	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1994: 7742)	0.772	≤ 4,380	0.100
HEXAVALENT CHROMIUM (Cr ⁶⁺) ^c	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 212	0.600
CADMIUM (Cd) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	ND	≤ 762	0.300
COPPER (Cu) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	35.4	≤ 35,040	0.300
LEAD (Pb) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	50.2	≤ 800	1.55
MANGANESE (Mn) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	397	≤ 19,640	0.250
NICKEL (Ni) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	9.15	≤ 5,205	1.00
MERCURY (Hg) ^c	mg/kg	ACID DIGESTION AND COLD VAPOUR AAS METHOD (US EPA 2007: 7471B)	ND	≤ 263	0.100



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A1 T24AV712-0001		
BARIUM (Ba) °	mg/kg	DIGESTION AND INDUCTIVELY COUPLED PLASMA METHOD (US EPA METHOD 3050B REVISION 2 : 1996 AND 6010D REVISION 5 2018)	1280	-	0.250
PARTICLE SIZE (SC)					
GRAVEL (>2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	56.8	-	-
SAND (0.063-2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	9.6	-	-
SILT (0.002-0.063 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	33.6	-	-
CLAY (< 0.002 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	0.0	-	-
SOIL TEXTURE (SC)					
SOIL TEXTURE °	-	SIEVE ANALYSIS AND HYDROMETER METHOD	SILTY GRAVEL	-	-
TOTAL PETROLEUM HYDROCARBON					
TPH (C ₆ -C ₁₀) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.05
TPH (C ₉ -C ₂₅) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.16
TPH (C ₂₅ -C ₃₆) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.08
VOLATILE ORGANIC COMPOUNDS					
BENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 5	0.01
ETHYLBENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 19,350	0.01
TOLUENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 40,140	0.01



United Analyst and Engineering Consultant Co., Ltd.

246/246 Moo 4, Bangna-Prachin Buri Road, Bangna District, Bangkok 10700, Thailand

โทรศัพท์ : 02-016-1111 โทรสาร : 02-016-1112 อีเมล : uae@uae.co.th, uae.th@uae.co.th



TESTING
No.0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A1 T24AV712-0001		
TOTAL XYLENES ^c	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 2,478	0.01
SAMPLE CONDITION			BROWN SOIL		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REGULATORY STANDARD : NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD CLASS 2, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, 54 D,VOL 138, PART DATED MARCH 11, 2021.

CLASS 2 : SOIL QUALITY STANDARDS FOR COMMERCE, AGRICULTURE AND OTHER PURPOSES

SAMPLE(S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NOT DETECTED

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

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ISO 14001:2015 CERTIFIED
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ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ภูมิอเนกและสินภูมิ จังหวัดอุดรธานี

CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED

ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120

CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicollc.com

SAMPLING SOURCE : S_SPHE-A2 : พื้นที่ฐานเจาะ บ้านทับไธ ตำบลแสงสว่าง อำเภอหนองแสง

SAMPLE TYPE : SOIL **RECEIVED DATE** : SEPTEMBER 19, 2024

SAMPLING DATE : SEPTEMBER 17, 2024 **ANALYTICAL DATE** : SEPTEMBER 19 - OCTOBER 15, 2024

SAMPLING TIME : 11:05 HOUR **ISSUE DATE** : OCTOBER 15, 2024

SAMPLING METHOD : UNDISTURBED **REPORT NO.** : 2024-U095829

SAMPLING BY : MR PRACHCHAPOL SOPHA **WORK NO.** : 2023-007682

ANALYZED BY : MISS JINTASUPA PLIANSRI **ANALYSIS NO.** : T24AV712-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A2 T24AV712-0002		
pH (1:1) ^b	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	6.9 (25°C)	-	-
ELECTRICAL CONDUCTIVITY (1:5) ^c	dS/m	ELECTRICAL CONDUCTIVITY METHOD	0.013 (25°C)	-	0.001
SALINITY (1:5) ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD	< 0.1	-	0.1
CHLORIDE ^c	% w/w	BS 1377 : PART3 : 1990	ND	-	0.01
METALS					
ARSENIC (As) ^c	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1992: 7061A)	23.4	≤ 25	0.100
IRON (Fe) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	119.162	-	0.500
ZINC (Zn) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	28.9	-	0.350
SELENIUM (Se) ^c	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1994: 7742)	0.470	≤ 4,380	0.100
HEXAVALENT CHROMIUM (Cr ⁶⁺) ^c	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 212	0.600
CADMIUM (Cd) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	ND	≤ 762	0.300
COPPER (Cu) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	54.7	≤ 35,040	0.300
LEAD (Pb) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	53.0	≤ 800	155
MANGANESE (Mn) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	550	≤ 19,640	0.250
NICKEL (Ni) ^c	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	10.5	≤ 5,205	1.00
MERCURY (Hg) ^c	mg/kg	ACID DIGESTION AND COLD VAPOUR AAS METHOD (US EPA 2007: 7471B)	ND	≤ 263	0.100



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A2 T24AV712-0002		
BARIUM (Ba) °	mg/kg	DIGESTION AND INDUCTIVELY COUPLED PLASMA METHOD (US EPA METHOD 3050B REVISION 2 : 1996 AND 6010D REVISION 5 : 2018)	819	-	0.250
PARTICLE SIZE (SC)					
GRAVEL (>2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	45.2	-	-
SAND (0.063-2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	17.3	-	-
SILT (0.002-0.063 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	37.5	-	-
CLAY (< 0.002 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	0.0	-	-
SOIL TEXTURE (SC)					
SOIL TEXTURE °	-	SIEVE ANALYSIS AND HYDROMETER METHOD	SILTY GRAVEL	-	-
TOTAL PETROLEUM HYDROCARBON					
TPH (C ₁₀ -C ₂₅) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.05
TPH (C ₁₀ -C ₂₅) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.16
TPH (C ₂₀ -C ₃₆) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.08
VOLATILE ORGANIC COMPOUNDS					
BENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 5	0.01
ETHYLBENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 19,350	0.01
TOLUENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 40,140	0.01

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A2 T24AV712-0002		
TOTAL XYLENES ^c	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018-8260D)	ND	≤ 2,478	0.01
SAMPLE CONDITION			BROWN SOIL		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REGULATORY STANDARD : NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD CLASS 2 . PUBLISHED IN THE ROYAL GOVERNMENT
GAZETTE. 54 D,VOL 138, PART DATED MARCH 11, 2021

CLASS 2 : SOIL QUALITY STANDARDS FOR COMMERCE, AGRICULTURE AND OTHER PURPOSES

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND NOT DETECTED

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY

Benjawan V.

(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME	: โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ภูเขื่อนเหนือและสินภูเขื่อน จังหวัดอุดรธานี	RECEIVED DATE	: SEPTEMBER 19, 2024
CUSTOMER NAME	: APICO (KHORAT) COMPANY LIMITED	ANALYTICAL DATE	: SEPTEMBER 19 - OCTOBER 15, 2024
ADDRESS	: SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120	ISSUE DATE	: OCTOBER 15, 2024
CONTACT INFORMATION	: TEL : 08 9698 4651 e-mail : jutatip.p@apicollc.com	REPORT NO.	: 2024-U095830
SAMPLING SOURCE	: S_SPHE-A3 : พื้นที่ฐานเจาะ บานทับไธ ตำบลแสงสว่าง อำเภอหนองแสง	WORK NO.	: 2023-007682
SAMPLE TYPE	: SOIL	ANALYSIS NO.	: T24AV712-0003
SAMPLING DATE	: SEPTEMBER 17, 2024		
SAMPLING TIME	: 13:35 HOUR		
SAMPLING METHOD °	: UNDISTURBED		
SAMPLING BY °	: MR PRACHCHAPOL SOPHA		
ANALYZED BY	: MISS JINTASUPA PLIANSRI		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A3 T24AV712-0003		
pH (1:1) °	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	7.4 (25°C)	-	-
ELECTRICAL CONDUCTIVITY (1:5) °	dS/m	ELECTRICAL CONDUCTIVITY METHOD	0.019 (25°C)	-	0.001
SALINITY (1:5) °	ppt	ELECTRICAL CONDUCTIVITY METHOD	< 0.1	-	0.1
CHLORIDE °	% w/w	BS 1377 : PART3 : 1990	ND	-	0.01
METALS					
ARSENIC (As) °	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1992: 7061A)	19.2	≤ 25	0.100
IRON (Fe) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	150,834	-	0.500
ZINC (Zn) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	31.3	-	0.350
SELENIUM (Se) °	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1994: 7742)	1.13	≤ 4,380	0.100
HEXAVALENT CHROMIUM (Cr ⁶⁺) °	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 212	0.600
CADMIUM (Cd) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	ND	≤ 762	0.300
COPPER (Cu) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	57.6	≤ 35,040	0.300
LEAD (Pb) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	77.5	≤ 800	1.55
MANGANESE (Mn) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	485	≤ 19,640	0.250
NICKEL (Ni) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	13.5	≤ 5,205	1.00
MERCURY (Hg) °	mg/kg	ACID DIGESTION AND COLD VAPOUR AAS METHOD (US EPA 2007: 7471B)	ND	≤ 263	0.100



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A3 T24AV712-0003		
BARIUM (Ba) °	mg/kg	DIGESTION AND INDUCTIVELY COUPLED PLASMA METHOD (US EPA METHOD 3050B REVISION 2 1996 AND 6010D REVISION 5 : 2018)	341	-	0.250
PARTICLE SIZE (SC)					
GRAVEL (>2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	54.1	-	-
SAND (0.063-2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	13.9	-	-
SILT (0.002-0.063 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	32.0	-	-
CLAY (< 0.002 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	0.0	-	-
SOIL TEXTURE (SC)					
SOIL TEXTURE °	-	SIEVE ANALYSIS AND HYDROMETER METHOD	SILTY GRAVEL	-	-
TOTAL PETROLEUM HYDROCARBON					
TPH (C ₉ -C ₂₄) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	-	0.05
TPH (C ₉ -C ₂₄) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	-	0.16
TPH (C ₂₅ -C ₃₆) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	-	0.08
VOLATILE ORGANIC COMPOUNDS					
BENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 5	0.01
ETHYLBENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 19,350	0.01
TOLUENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 40,140	0.01

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A3 T24AV712-0003		
TOTAL XYLENES ^a	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 2,478	0.01
SAMPLE CONDITION			BROWN SOIL		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REGULATORY STANDARD : NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD CLASS 2 . PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, 54 D,VOL 138, PART DATED MARCH 11, 2021.

CLASS 2 : SOIL QUALITY STANDARDS FOR COMMERCE, AGRICULTURE AND OTHER PURPOSES

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NOT DETECTED

SC THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME	: โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ทุ่งอ่อมเหนือและเงินกู้อ่อม จังหวัดอุตรธานี	RECEIVED DATE	: SEPTEMBER 19, 2024
CUSTOMER NAME	: APICO (KHORAT) COMPANY LIMITED	ANALYTICAL DATE	: SEPTEMBER 19 - OCTOBER 15, 2024
ADDRESS	: SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120	ISSUE DATE	: OCTOBER 15, 2024
CONTACT INFORMATION	: TEL : 08 9698 4651 e-mail : jutatip.p@apicolic.com	REPORT NO.	: 2024-U095831
SAMPLING SOURCE	: S_SPHE-A4 : พื้นที่ดินเจาะ บำบัดน้ำเสีย ตำบลแสงสว่าง อำเภอหนองแสง	WORK NO.	: 2023-007682
SAMPLE TYPE	: SOIL	ANALYSIS NO.	: T24AV712-0004
SAMPLING DATE	: SEPTEMBER 17, 2024		
SAMPLING TIME	: 11:50 HOUR		
SAMPLING METHOD °	: UNDISTURBED		
SAMPLING BY °	: MR PRACHCHAPOL SOPHA		
ANALYZED BY	: MISS JINTASUPA PLIANSRI		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A4 T24AV712-0004		
pH (1:1) °	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	7.1 (25°C)	-	-
ELECTRICAL CONDUCTIVITY (1:5) °	dS/m	ELECTRICAL CONDUCTIVITY METHOD	0.017 (25°C)	-	0.001
SALINITY (1:5) °	ppt	ELECTRICAL CONDUCTIVITY METHOD	< 0.1	-	0.1
CHLORIDE °	% w/w	BS 1377 : PART3 : 1990	ND	-	0.01
METALS					
ARSENIC (As) °	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1992: 7061A)	15.4	≤ 25	0.100
IRON (Fe) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	136,806	-	0.500
ZINC (Zn) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	28.1	-	0.350
SELENIUM (Se) °	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1994: 7742)	0.730	≤ 4,380	0.100
HEXAVALENT CHROMIUM (Cr ⁶⁺) °	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 212	0.600
CADMIUM (Cd) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	ND	≤ 762	0.300
COPPER (Cu) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	49.9	≤ 35,040	0.300
LEAD (Pb) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	42.4	≤ 800	1.55
MANGANESE (Mn) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	162	≤ 19,640	0.250
NICKEL (Ni) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	13.7	≤ 5,205	1.00
MERCURY (Hg) °	mg/kg	ACID DIGESTION AND COLD VAPOUR AAS METHOD (US EPA 2007: 7471B)	ND	≤ 263	0.100



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A4 T24AV712-0004		
BARIUM (Ba) ^o	mg/kg	DIGESTION AND INDUCTIVELY COUPLED PLASMA METHOD (US EPA METHOD 3050B REVISION 2 : 1996 AND 6010D REVISION 5 : 2018)	196	-	0.250
PARTICLE SIZE (SC)					
GRAVEL (>2.00 mm) ^o	%	SIEVE ANALYSIS AND HYDROMETER METHOD	50.3	-	-
SAND (0.063-2.00 mm) ^o	%	SIEVE ANALYSIS AND HYDROMETER METHOD	11.9	-	-
SILT (0.002-0.063 mm) ^o	%	SIEVE ANALYSIS AND HYDROMETER METHOD	37.8	-	-
CLAY (< 0.002 mm) ^o	%	SIEVE ANALYSIS AND HYDROMETER METHOD	0.0	-	-
SOIL TEXTURE (SC)					
SOIL TEXTURE ^o	-	SIEVE ANALYSIS AND HYDROMETER METHOD	SILTY GRAVEL	-	-
TOTAL PETROLEUM HYDROCARBON					
TPH (C ₁₀ -C ₂₈) ^o	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.05
TPH (C ₉ -C ₂₉) ^o	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.16
TPH (C ₂₀ -C ₃₀) ^o	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003.8015 D)	ND	-	0.08
VOLATILE ORGANIC COMPOUNDS					
BENZENE ^o	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 5	0.01
ETHYLBENZENE ^o	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 19,350	0.01
TOLUENE ^o	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 40,140	0.01

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A4 T24AV712-0004		
TOTAL XYLENES ^a	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002 5035A AND 2018: 8260D)	ND	≤ 2,478	0.01
SAMPLE CONDITION			BROWN SOIL		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REGULATORY STANDARD : NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD CLASS 2, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, 54 D.VOL.138, PART DATED MARCH 11, 2021.

CLASS 2 : SOIL QUALITY STANDARDS FOR COMMERCE, AGRICULTURE AND OTHER PURPOSES

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NOT DETECTED

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ทุ่งขอมเหนือและสินธุขอม จังหวัดอุดรธานี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicolc.com
SAMPLING SOURCE : S_SPHE-A5 : พื้นที่ฐานเจาะ บ่อน้ำดิบใต้ ตำนาลแสงสว่าง อำเภอหนองแสง
SAMPLE TYPE : SOIL
SAMPLING DATE : SEPTEMBER 17, 2024
SAMPLING TIME : 12:55 HOUR
SAMPLING METHOD ° : UNDISTURBED
SAMPLING BY ° : MR PRACHCHAPOL SOPHA
ANALYZED BY : MISS JINTASUPA PLIANSRI
RECEIVED DATE : SEPTEMBER 19, 2024
ANALYTICAL DATE : SEPTEMBER 19 - OCTOBER 15, 2024
ISSUE DATE : OCTOBER 15, 2024
REPORT NO. : 2024-U095833
WORK NO. : 2023-007682
ANALYSIS NO. : T24AV712-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A5 T24AV712-0005		
pH (1:1) ^b	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	5.8 (25°C)	-	-
ELECTRICAL CONDUCTIVITY (1:5) °	dS/m	ELECTRICAL CONDUCTIVITY METHOD	0.005 (25°C)	-	0.001
SALINITY (1:5) °	ppt	ELECTRICAL CONDUCTIVITY METHOD	< 0.1	-	0.1
CHLORIDE °	% w/w	BS 1377 : PART3 : 1990	ND	-	0.01
METALS					
ARSENIC (As) °	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1992: 7061A)	5.60	≤ 25	0.100
IRON (Fe) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	59,881	-	0.500
ZINC (Zn) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	15.7	-	0.350
SELENIUM (Se) °	mg/kg	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1994: 7742)	0.149	≤ 4,380	0.100
HEXAVALENT CHROMIUM (Cr ⁶⁺) °	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 212	0.600
CADMIUM (Cd) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	ND	≤ 762	0.300
COPPER (Cu) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	16.4	≤ 35,040	0.300
LEAD (Pb) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	28.6	≤ 800	1.55
MANGANESE (Mn) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	258	≤ 19,640	0.250
NICKEL (Ni) °	mg/kg	DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	4.44	≤ 5,205	1.00
MERCURY (Hg) °	mg/kg	ACID DIGESTION AND COLD VAPOUR AAS METHOD (US EPA 2007: 7471B)	ND	≤ 263	0.100



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			S_SPHE-A5 T24AV712-0005		
BARIUM (Ba) °	mg/kg	DIGESTION AND INDUCTIVELY COUPLED PLASMA METHOD (US EPA METHOD 3050B REVISION 2 : 1996 AND 6010D REVISION 5 : 2018)	82.9	-	0.250
PARTICLE SIZE(SC)					
GRAVEL (>2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	2.3	-	-
SAND (0.063-2.00 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	72.4	-	-
SILT (0.002-0.063 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	25.3	-	-
CLAY (< 0.002 mm) °	%	SIEVE ANALYSIS AND HYDROMETER METHOD	0.0	-	-
SOIL TEXTURE(SC)					
SOIL TEXTURE °	-	SIEVE ANALYSIS AND HYDROMETER METHOD	SILTY SAND	-	-
TOTAL PETROLEUM HYDROCARBON					
TPH (C ₁₀ -C ₄₀) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003:8015 D)	ND	-	0.05
TPH (C ₁₀ -C ₂₅) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003:8015 D)	ND	-	0.16
TPH (C ₂₅ -C ₃₀) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007.3550 C AND 2003:8015 D)	ND	-	0.08
VOLATILE ORGANIC COMPOUNDS					
BENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 5	0.01
ETHYLBENZENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 19,350	0.01
TOLUENE °	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	≤ 40,140	0.01

ภาคผนวก ค-4
คุณภาพน้ำใต้ดิน



ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ภูมิอ้อมเหนือและสินธุอ้อม จังหวัดอุตรธานี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicolc.com
SAMPLING SOURCE : GW_SPHE-A1 : ปัสสูบนบนบมด้านหน้า
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : SEPTEMBER 17, 2024
SAMPLING TIME : 15:05 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR PRACHCHAPOL SOPHA
ANALYZED BY : MISS WORAKON PADSONGCHAN
RECEIVED DATE : SEPTEMBER 19, 2024
ANALYTICAL DATE : SEPTEMBER 19 - OCTOBER 2, 2024
ISSUE DATE : OCTOBER 4, 2024
REPORT NO. : 2024-U092257
WORK NO. : 2023-007682
ANALYSIS NO. : T24AV711-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			GW_SPHE-A1 T24AV711-0001			
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	3.3 (310°C)	-	-	-
TEMPERATURE ^b	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.0	-	-	-
ELECTRICAL CONDUCTIVITY ^b	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	247 (310°C)	-	0.1	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	0.1	-	0.1	-
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	146	-	25	-
METALS						
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0003	-
BARIUM ^c	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.063	-	0.003	-
CADMIUM ^a	mg/L Cd	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.003	0.010
COPPER ^a	mg/L Cu	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.103	≤ 1.0	0.004	0.025
IRON ^a	mg/L Fe	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.096	-	0.005	0.050
LEAD ^a	mg/L Pb	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.01	0.007	0.100
MANGANESE ^a	mg/L Mn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	1.34	≤ 0.5	0.002	0.025
MERCURY ^b	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 BASED ON SM: PART 3112 B	ND	≤ 0.001	0.0001	0.0005
NICKEL ^a	mg/L Ni	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.02	0.005	0.050
SELENIUM ^c	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0005	-
TOTAL CHROMIUM ^{a, c}	mg/L Cr	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	-	0.007	0.050
ZINC ^a	mg/L Zn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.277	≤ 5.0	0.003	0.025



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			GW_SPHE-A1 T24AV711-0001			
TOTAL PETROLEUM HYDROCARBON						
TPH (C ₉ -C ₁₀) °	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003. 8015D)	ND	-	0.010	-
TPH (C ₉ -C ₁₀) °	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003. 8015D)	ND	-	0.032	-
TPH (C ₉ -C ₁₀) °	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003. 8015D)	ND	-	0.016	-
VOLATILE ORGANIC COMPOUNDS						
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	≤ 5	-	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	≤ 700	-	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	≤ 1,000	-	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.50	≤ 10,000	-	0.50
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR			
SEDIMENT			BROWN			

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543) ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 117, SPECIAL PART 95D, DATED SEPTEMBER 15, B.E. 2543 (2000).

[^] : CUSTOMER INFORMATION.

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (LEAD ≥ 0.007 AND < 0.100 mg/L, NICKEL ≥ 0.005 AND < 0.050 mg/L).

(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจปิโตรเลียมแบบก แปลงสำรวจแบบเลขที่ L15/43 ภูซอมเหนือและสินภูซอม จังหวัดอุดรธานี
CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED
ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicolc.com
SAMPLING SOURCE : GW_SPHE-A2 : บ่อสูบน้ำแบบปั๊ม_ด้านหน้า
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : SEPTEMBER 17, 2024
SAMPLING TIME : 15:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR PRACHCHAPOL SOPHA
ANALYZED BY : MISS WORAKON PADSONGCHAN
RECEIVED DATE : SEPTEMBER 19, 2024
ANALYTICAL DATE : SEPTEMBER 19 - OCTOBER 2, 2024
ISSUE DATE : OCTOBER 4, 2024
REPORT NO. : 2024-U092258
WORK NO. : 2023-007682
ANALYSIS NO. : T24AV711-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			GW_SPHE-A2 T24AV711-0002			
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	5.4 (32.4°C)	-	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	22.4	-	-	-
ELECTRICAL CONDUCTIVITY ^b	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	245 (32.4°C)	-	0.1	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	0.1	-	0.1	-
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	154	-	25	-
METALS						
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0003	-
BARIUM ^c	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.145	-	0.003	-
CADMIUM ^a	mg/L Cd	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.003	0.010
COPPER ^a	mg/L Cu	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 1.0	0.004	0.025
IRON ^b	mg/L Fe	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	-	0.005	0.050
LEAD ^c	mg/L Pb	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.01	0.007	0.100
MANGANESE ^a	mg/L Mn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.031	≤ 0.5	0.002	0.025
MERCURY ^b	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 BASED ON SM: PART 3112 B	ND	≤ 0.001	0.0001	0.0005
NICKE ^a	mg/L Ni	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.02	0.005	0.050
SELENIUM ^c	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0005	-
TOTAL CHROMIUM ^a	mg/L Cr	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	-	0.007	0.050
ZINC ^a	mg/L Zn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 5.0	0.003	0.025



ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ฤๅษอมเหนือและสิๅนฤๅษอม จังหวัดอุๅรธานี

CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED

ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120

CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutatip.p@apicollc.com

SAMPLING SOURCE : MONITORING WELL ONSITE (UPSTREAM)

SAMPLE TYPE : GROUNDWATER

SAMPLING DATE : SEPTEMBER 17, 2024

SAMPLING TIME : 13:50 HOUR

SAMPLING METHOD : SUBMERSIBLE PUMP

SAMPLING BY : MR PRACHCHAPOL SOPHA

ANALYZED BY : MISS WORAKON PADSONGCHAN

RECEIVED DATE : SEPTEMBER 19, 2024

ANALYTICAL DATE : SEPTEMBER 19 - OCTOBER 2, 2024

ISSUE DATE : OCTOBER 4, 2024

REPORT NO. : 2024-U091680

WORK NO. : 2023-007682

ANALYSIS NO. : T24AV710-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MONITORING WELL ONSITE UPSTREAM T24AV710-0001			
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	5.0 (29.7°C)	-	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	29.7	-	-	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	94.4 (29.4°C)	-	0.1	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	ND	-	0.1	-
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	54	-	25	-
METALS						
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0007	≤ 0.01	0.0003	-
SELENIUM ^c	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0005	-
CADMIUM ^a	mg/L Cd	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.003	0.010
COPPER ^a	mg/L Cu	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 1.0	0.004	0.025
IRON ^a	mg/L Fe	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.813	-	0.005	0.050
LEAD ^a	mg/L Pb	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.01	0.007	0.100
MANGANESE ^a	mg/L Mn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.038	≤ 0.5	0.002	0.025
NICKEL ^a	mg/L Ni	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.02	0.005	0.050
ZINC ^a	mg/L Zn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 5.0	0.003	0.025
BARIUM ^c	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.062	-	0.003	-
MERCURY ^b	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 BASED ON SM: PART 3112 B	ND	≤ 0.001	0.0001	0.0005
TOTAL CHROMIUM ^a	mg/L Cr	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	-	0.007	0.050



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MONITORING WELL ONSITE UPSTREAM T24AV710-0001			
TOTAL PETROLEUM HYDROCARBON						
TPH (C ₁₀ -C ₃₄) ^c	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	-	0.010	-
TPH (C ₁₅ -C ₂₈) ^c	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	-	0.032	-
TPH (C ₂₉ -C ₃₆) ^c	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	-	0.016	-
VOLATILE ORGANIC COMPOUNDS						
BENZENE ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	≤ 5	-	0.20
ETHYLBENZENE ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	≤ 700	-	0.20
TOLUENE ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	≤ 1,000	-	0.20
TOTAL XYLENES ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.60	≤ 10,000	-	0.60
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/CLEAR			
SEDIMENT			BROWN			

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : 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, 24th EDITION, 2023.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543) ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 117, SPECIAL PART 95D, DATED SEPTEMBER 15, B.E. 2543 (2000).

[^] : CUSTOMER INFORMATION.

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.004 AND < 0.025 mg/L, LEAD ≥ 0.007 AND < 0.100 mg/L, NICKEL ≥ 0.005 AND < 0.050 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจปิโตรเลียมบนบก แปลงสำรวจบนบกเลขที่ L15/43 ทุ่งขอมเหนือและสินขอม จังหวัดอุดรธานี

CUSTOMER NAME : APICO (KHORAT) COMPANY LIMITED

ADDRESS : SUITE 2610 EMPIRE TOWER 1 SOUTH SATHORN ROAD YAN NAWA SATHON BANGKOK 10120

CONTACT INFORMATION : TEL : 08 9698 4651 e-mail : jutapip.p@apicollc.com

SAMPLING SOURCE : MONITORING WELL ONSITE (DOWNSTREAM)

SAMPLE TYPE : GROUNDWATER

SAMPLING DATE : SEPTEMBER 17, 2024

SAMPLING TIME : 12:15 HOUR

SAMPLING METHOD : SUBMERSIBLE PUMP

SAMPLING BY : MR PRACHCHAPOL SOPHA

ANALYZED BY : MISS WORAKON PADSONGCHAN

RECEIVED DATE : SEPTEMBER 19, 2024

ANALYTICAL DATE : SEPTEMBER 19 - OCTOBER 2, 2024

ISSUE DATE : OCTOBER 4, 2024

REPORT NO. : 2024-U091681

WORK NO. : 2023-007682

ANALYSIS NO. : T24AV710-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MONITORING WELL ONSITE DOWNSTREAM T24AV710-0002			
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	6.1 (29.8°C)	-	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	29.8	-	-	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	206 (29.8°C)	-	0.1	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	0.1	-	0.1	-
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	117	-	25	-
METALS						
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0040	≤ 0.01	0.0003	-
SELENIUM ^c	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0005	-
CADMIUM ^a	mg/L Cd	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.003	0.010
COPPER ^a	mg/L Cu	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 1.0	0.004	0.025
IRON ^a	mg/L Fe	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	2.53	-	0.005	0.050
LEAD ^a	mg/L Pb	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.199	≤ 0.01	0.007	0.100
MANGANESE ^a	mg/L Mn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	0.181	≤ 0.5	0.002	0.025
NICKEL ^a	mg/L Ni	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.02	0.005	0.050
ZINC ^a	mg/L Zn	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 5.0	0.003	0.025
BARIUM ^c	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.154	-	0.003	-
MERCURY ^b	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 BASED ON SM: PART 3112 B	ND	≤ 0.001	0.0001	0.0005
TOTAL CHROMIUM ^a	mg/L Cr	UAE.TP.HEM.003 BASED ON SM: PART 3030 E AND PART 3111 B	ND	-	0.007	0.050



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MONITORING WELL ONSITE DOWNSTREAM T24AV710-0002			
TOTAL PETROLEUM HYDROCARBON						
TPH (C ₁₀ -C ₄₀) ^c	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	-	0.010	-
TPH (C ₁₅ -C ₂₈) ^c	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	-	0.032	-
TPH (C ₂₉ -C ₃₆) ^c	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	-	0.016	-
VOLATILE ORGANIC COMPOUNDS						
BENZENE ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	≤ 5	-	0.20
ETHYLBENZENE ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	≤ 700	-	0.20
TOLUENE ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	≤ 1,000	-	0.20
TOTAL XYLENES ^a	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.60	≤ 10,000	-	0.60
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN			

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : 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, 24th EDITION, 2023.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535,
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 117, SPECIAL PART 95D, DATED SEPTEMBER 15,
B.E. 2543 (2000).

^A : CUSTOMER INFORMATION.

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.004 AND < 0.025 mg/L, NICKEL ≥ 0.005 AND < 0.050 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR