

ภาคผนวก ค  
ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการติดตามตรวจสอบคุณภาพอากาศโดยทั่วไป



United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260

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

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**MEASURING PLACE** : อาคารในพื้นที่โครงการ

**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : FEBRUARY 12-13, 2024

**MEASURING DATE** : FEBRUARY 12-13, 2024 **ANALYTICAL DATE** : FEBRUARY 12-13, 2024

**MEASURING TIME** : \* **REPORT NO.** : 2024-U013482

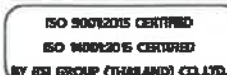
**MEASURING METHOD** : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2023-006131

**MEASURED BY** : [REDACTED] **ANALYSIS NO.** : T24AC865-0001

TIME *	RESULT (ppm)
	CARBON MONOXIDE
	อากาศในพื้นที่โครงการ
	FEBRUARY 12 - 13, 2024 T24AC865-0001
11:00-12:00 HOUR	1.31
12:00-13:00 HOUR	1.29
13:00-14:00 HOUR	1.36
14:00-15:00 HOUR	1.42
15:00-16:00 HOUR	1.16
16:00-17:00 HOUR	1.16
17:00-18:00 HOUR	1.33
18:00-19:00 HOUR	1.48
19:00-20:00 HOUR	1.50
20:00-21:00 HOUR	1.26
21:00-22:00 HOUR	1.35
22:00-23:00 HOUR	1.18
23:00-00:00 HOUR	0.82
00:00-01:00 HOUR	0.94
01:00-02:00 HOUR	1.06
02:00-03:00 HOUR	0.84
03:00-04:00 HOUR	1.00
04:00-05:00 HOUR	0.70
05:00-06:00 HOUR	0.92
06:00-07:00 HOUR	1.01
07:00-08:00 HOUR	1.19
08:00-09:00 HOUR	1.59
09:00-10:00 HOUR	1.42
10:00-11:00 HOUR	1.22

LABORATORY SUPERVISOR

FEBRUARY 16, 2024



♦ PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.  
♦ REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
**CUSTOMER NAME** : โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566  
**ADDRESS** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**CONTACT INFORMATION** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**MEASURING PLACE** : TEL : [REDACTED] e-mail : [REDACTED]  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : RECEIVED DATE : FEBRUARY 12-13, 2024  
**MEASURING TIME** : \* ANALYTICAL DATE : FEBRUARY 12-13, 2024  
**MEASURING METHOD** : CHEMILUMINESCENCE  
**MEASURED BY** : [REDACTED] REPORT NO. : 2024-U013483  
WORK NO. : 2023-006131  
ANALYSIS NO. : T24AC865-0001

TIME *	RESULT (ppm)
	NITROGEN DIOXIDE
	อากาศในพื้นที่โครงการ
	FEBRUARY 12 - 13, 2024 T24AC865-0001
11:00-12:00 HOUR	0.0167
12:00-13:00 HOUR	0.0185
13:00-14:00 HOUR	0.0163
14:00-15:00 HOUR	0.0196
15:00-16:00 HOUR	0.0160
16:00-17:00 HOUR	0.0167
17:00-18:00 HOUR	0.0189
18:00-19:00 HOUR	0.0203
19:00-20:00 HOUR	0.0196
20:00-21:00 HOUR	0.0146
21:00-22:00 HOUR	0.0143
22:00-23:00 HOUR	0.0132
23:00-00:00 HOUR	0.0112
00:00-01:00 HOUR	0.0132
01:00-02:00 HOUR	0.0114
02:00-03:00 HOUR	0.0128
03:00-04:00 HOUR	0.0122
04:00-05:00 HOUR	0.0129
05:00-06:00 HOUR	0.0130
06:00-07:00 HOUR	0.0140
07:00-08:00 HOUR	0.0164
08:00-09:00 HOUR	0.0154
09:00-10:00 HOUR	0.0168
10:00-11:00 HOUR	0.0158



LABORATORY SUPERVISOR

FEBRUARY 16, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**MEASURING PLACE** : ภายนอกพื้นที่โครงการ

**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : FEBRUARY 12-13, 2024

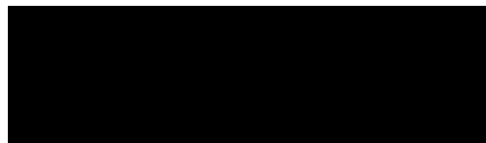
**MEASURING DATE** : FEBRUARY 12-13, 2024 **ANALYTICAL DATE** : FEBRUARY 12-13, 2024

**MEASURING TIME** : \* **REPORT NO.** : 2024-U013484

**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2023-006131

**MEASURED BY** : [REDACTED] **ANALYSIS NO.** : T24AC865-0001

TIME *	RESULT (ppm)
	SULPHUR DIOXIDE
	อากาศในพื้นที่โครงการ
	FEBRUARY 12 - 13, 2024 T24AC865-0001
11:00-12:00 HOUR	0.0022
12:00-13:00 HOUR	0.0024
13:00-14:00 HOUR	0.0021
14:00-15:00 HOUR	0.0020
15:00-16:00 HOUR	0.0022
16:00-17:00 HOUR	0.0023
17:00-18:00 HOUR	0.0025
18:00-19:00 HOUR	0.0026
19:00-20:00 HOUR	0.0024
20:00-21:00 HOUR	0.0021
21:00-22:00 HOUR	0.0020
22:00-23:00 HOUR	0.0016
23:00-00:00 HOUR	0.0015
00:00-01:00 HOUR	0.0017
01:00-02:00 HOUR	0.0015
02:00-03:00 HOUR	0.0016
03:00-04:00 HOUR	0.0014
04:00-05:00 HOUR	0.0019
05:00-06:00 HOUR	0.0018
06:00-07:00 HOUR	0.0023
07:00-08:00 HOUR	0.0025
08:00-09:00 HOUR	0.0026
09:00-10:00 HOUR	0.0023
10:00-11:00 HOUR	0.0024
AVERAGE 24 HOUR	0.0021



LABORATORY SUPERVISOR

FEBRUARY 16, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**MEASURING PLACE** : อากาศในพื้นที่โครงการ

**MEASURING TYPE** : AMBIENT (AIR)

**MEASURING DATE** : FEBRUARY 12-13, 2024

**MEASURING TIME** : \*

**MEASURING METHOD** : FLAME IONIZATION DETECTOR

**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 12-13, 2024

**ANALYTICAL DATE** : FEBRUARY 12-13, 2024

**REPORT NO.** : 2024-U013485

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AC865-0001

DATE	TIME *	RESULT (ppm)
		TOTAL HYDROCARBONS
		อากาศในพื้นที่โครงการ
FEBRUARY 12 - 13, 2024 T24AC865-0001	11:00-12:00 HOUR	2.08
	12:00-13:00 HOUR	2.25
	13:00-14:00 HOUR	2.36
	14:00-15:00 HOUR	2.39
	15:00-16:00 HOUR	2.18
	16:00-17:00 HOUR	2.45
	17:00-18:00 HOUR	2.37
	18:00-19:00 HOUR	2.48
	19:00-20:00 HOUR	2.06
	20:00-21:00 HOUR	1.87
	21:00-22:00 HOUR	1.92
	22:00-23:00 HOUR	1.94
	23:00-00:00 HOUR	1.68
	00:00-01:00 HOUR	1.73
	01:00-02:00 HOUR	1.98
	02:00-03:00 HOUR	1.93
	03:00-04:00 HOUR	1.59
	04:00-05:00 HOUR	1.96
	05:00-06:00 HOUR	1.76
	06:00-07:00 HOUR	2.15
	07:00-08:00 HOUR	2.38
	08:00-09:00 HOUR	2.23
	09:00-10:00 HOUR	2.24
	10:00-11:00 HOUR	2.05
	AVERAGE 24 HOUR	2.08

LABORATORY SUPERVISOR

FEBRUARY 16, 2024





ภาคผนวก ค-2

ผลการติดตามตรวจสอบคุณภาพน้ำจาก  
ระบบบำบัดน้ำเสีย และน้ำทิ้ง

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WASTEWATER

**SAMPLING DATE** : JANUARY 18, 2024

**SAMPLING TIME** : 10:55 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 18, 2024

**ANALYTICAL DATE** : JANUARY 18-24, 2024

**REPORT NO.** : 2024-U007028

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AB086-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าที่ได้รับสภาพ (ระบบภาคตัด) T24AB086-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.8 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	147	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	64.2	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	460	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	19	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.2	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	64.7	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	6	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			กึ่งปริมาณสารพิษ (ระบบฟอสฟอรัส) T24AB086-0001	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	>160,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	>160,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			BLACK/TURBID BLACK	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

ND : NON-DETECTABLE.



LABORATORY SUPERVISOR

JANUARY 30, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : JANUARY 18, 2024

**SAMPLING TIME** : 11:00 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 18, 2024

**ANALYTICAL DATE** : JANUARY 18-24, 2024

**ISSUE DATE** : JANUARY 26, 2024

**REPORT NO.** : 2024-U007029

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AB086-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ทั้งปัส (ระบบบำบัด) T24AB086-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.1 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND** <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-C G)	13.4	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	24.4	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	463	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งน้ำใส (ระบอบปกติ) T24AB086-0002	
MICROBIOLOGY				
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	700	1.8
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	1,700	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq 1.5$  AND < 5.0 mg/L).



LABORATORY SUPERVISOR

FEBRUARY 6, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 18, 2024  
**ANALYTICAL DATE** : JANUARY 18-24, 2024  
**REPORT NO.** : 2024-U007030  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB086-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มาตรฐานคุณภาพน้ำ T24AB086-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.7 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND** <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	10.1	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	216	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	454	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มาตรฐานคุณภาพ T24AB086-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 ml.	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	3,300	-	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

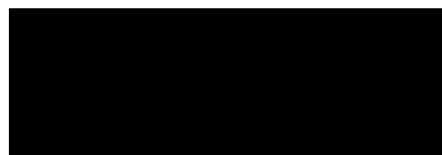
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE  
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122,  
PART 125 D, DATED DECEMBER 29, 2005 AND VOL. 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).



LABORATORY SUPERVISOR

JANUARY 30, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WATER SUPPLY **RECEIVED DATE** : JANUARY 18, 2024

**SAMPLING DATE** : JANUARY 18, 2024 **ANALYTICAL DATE** : JANUARY 18-22, 2024

**SAMPLING TIME** : 11:10 HOUR **REPORT NO.** : 2024-U007036

**SAMPLING METHOD <sup>c</sup>** : GRAB **WORK NO.** : 2023-006131

**SAMPLING BY <sup>c</sup>** : [REDACTED] **ANALYSIS NO.** : T24AB086-0009

**ANALYZED BY** : [REDACTED]

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AB086-0009	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	307	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



LABORATORY SUPERVISOR

JANUARY 30, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WASTEWATER

**SAMPLING DATE** : FEBRUARY 7, 2024

**SAMPLING TIME** : 12:25 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 8, 2024

**ANALYTICAL DATE** : FEBRUARY 8-15, 2024

**ISSUE DATE** : FEBRUARY 16, 2024

**REPORT NO.** : 2024-U013475

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AC461-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ดังรับสภาพ (รวมค่าปกติ) T24AC461-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.0 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	161	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	72.8	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	448	25
SETTLEABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	0.9	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	63.7	15
FAT, OIL AND GREASE <sup>o</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งปิ่นสภาพ (ระบกกษาปค) T24AC461-0001	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

ND : NON-DETECTABLE.



LABORATORY SUPERVISOR

FEBRUARY 19, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : FEBRUARY 8, 2024

**SAMPLING DATE** : FEBRUARY 7, 2024 **ANALYTICAL DATE** : FEBRUARY 8-14, 2024

**SAMPLING TIME** : 12:30 HOUR **ISSUE DATE** : FEBRUARY 16, 2024

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE **REPORT NO.** : 2024-U013476

**SAMPLING BY** : [REDACTED] **WORK NO.** : 2023-006131

**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AC461-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งให้ (รณภพภัฏ) T24AC461-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	6.4 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>** c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	11.8	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.5	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	420	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	5.5	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่ามาตรฐาน (ระบอบมาตรฐาน) T24AC461-0002	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	2,200	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	790	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

[Redacted Signature]

LABORATORY SUPERVISOR

MARCH 1, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 7, 2024  
**SAMPLING TIME** : 12:35 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 8, 2024  
**ANALYTICAL DATE** : FEBRUARY 8-14, 2024  
**ISSUE DATE** : FEBRUARY 16, 2024  
**REPORT NO.** : 2024-U013477  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AC461-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลการตรวจคุณภาพน้ำ T24AC461-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	6.2 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND** <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	15.3	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	20.0	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	430	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มาตรฐานอุตสาหกรรม T24AC461-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	4,600	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE  
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,  
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq 1.5$  AND  $< 5.0$  mg/L).

[Redacted Signature]

LABORATORY SUPERVISOR

FEBRUARY 19, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WATER SUPPLY **RECEIVED DATE** : FEBRUARY 8, 2024

**SAMPLING DATE** : FEBRUARY 7, 2024 **ANALYTICAL DATE** : FEBRUARY 8-13, 2024

**SAMPLING TIME** : 12:40 HOUR **ISSUE DATE** : FEBRUARY 16, 2024

**SAMPLING METHOD** <sup>a</sup> : GRAB **REPORT NO.** : 2024-U013481

**SAMPLING BY** <sup>c</sup> : [REDACTED] **WORK NO.** : 2023-006131

**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AC461-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AC461-0006	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	264	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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



LABORATORY SUPERVISOR

FEBRUARY 19, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WASTEWATER

**SAMPLING DATE** : MARCH 6, 2024

**SAMPLING TIME** : 11:45 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 7, 2024

**ANALYTICAL DATE** : MARCH 7-13, 2024

**ISSUE DATE** : MARCH 15, 2024

**REPORT NO.** : 2024-U021868

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AE608-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ดังรับสภาพ (รวมค่าปรับ) T24AE608-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	6.6 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	193	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	71.1	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	497	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.5	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	63.3	15
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	4	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงรับสภาพ (ระบบภายใน) T24AE608-0001	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

ND : NON-DETECTABLE.

[Redacted Signature]

LABORATORY SUPERVISOR

MARCH 18, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : MARCH 6, 2024

**SAMPLING TIME** : 11:50 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 7, 2024

**ANALYTICAL DATE** : MARCH 7-13, 2024

**ISSUE DATE** : MARCH 15, 2024

**REPORT NO.** : 2024-U021870

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AE608-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งน้ำใส (ระบอบน้ำปกติ) T24AE608-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	6.4 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND** <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	7.1	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	18.7	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	428	25
SETTLABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> -F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	6.1	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งน้ำใส (ระบอบน้ำปกติ) T24AE608-0002	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	7,900	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	1,700	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/TURBID	
SEDIMENT			BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.



LABORATORY SUPERVISOR

MARCH 18, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : MARCH 6, 2024

**SAMPLING TIME** : 11:55 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 7, 2024

**ANALYTICAL DATE** : MARCH 7-13, 2024

**ISSUE DATE** : MARCH 15, 2024

**REPORT NO.** : 2024-U021871

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AE608-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปอดตรวจคุณภาพน้ำ T24AE608-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	6.2 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>** c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.6	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	216	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103- 105 °C); SM: PART 2540 C	430	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริษัท อูเออีซี จำกัด T24AE608-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	4,900	-	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE  
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,  
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

[Redacted Signature]

LABORATORY SUPERVISOR

MARCH 18, 2024

1/1

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WASTEWATER

**SAMPLING DATE** : APRIL 3, 2024

**SAMPLING TIME** : 11:20 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 3, 2024

**ANALYTICAL DATE** : APRIL 3-9, 2024

**ISSUE DATE** : APRIL 10, 2024

**REPORT NO.** : 2024-U030729

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AH059-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ทั้งปริมณฑล (ระบบบำบัด) T24AH059-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	6.9 (33°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	180	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	58.6	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	412	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.7	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	2.7	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	64.1	15
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถังรับสภาพ (ระบบน้ำดิบ) T24AH059-0001	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	24,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	24,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

APRIL 11, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : APRIL 3, 2024

**SAMPLING DATE** : APRIL 3, 2024 **ANALYTICAL DATE** : APRIL 3-9, 2024

**SAMPLING TIME** : 11:15 HOUR **ISSUE DATE** : APRIL 10, 2024

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE **REPORT NO.** : 2024-U030733

**SAMPLING BY** : [REDACTED] **WORK NO.** : 2023-006131

**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AH059-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ทั้งน้ำใส (ระบบบำบัด) T24AH059-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.0 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	37.7	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.6	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	402	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	27.2	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งผ่าน (รวมปกติ) T24AH059-0002	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	330	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	70	1.8
SAMPLE CONDITION			YELLOW/TURBID BROWN	
WATER'S COLOUR/TURBID				
SEDIMENT				

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

**ND** : NON-DETECTABLE.



LABORATORY SUPERVISOR

APRIL 11, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : APRIL 3, 2024

**SAMPLING TIME** : 11:10 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 3, 2024

**ANALYTICAL DATE** : APRIL 3-9, 2024

**ISSUE DATE** : APRIL 10, 2024

**REPORT NO.** : 2024-U030736

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AH059-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มาตรฐานคุณภาพน้ำ T24AH059-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	6.9 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	67.8	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.2	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103- 105 °C); SM: PART 2540 C	394	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	25.5	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			น้ำตรวจคุณภาพน้ำ T24AH059-0003		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	70	-	1.8
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	330	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE  
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,  
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

APRIL 11, 2024

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : APRIL 3, 2024  
**SAMPLING TIME** : 11:25 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : [REDACTED]  
**ANALYZED BY** : [REDACTED]  
**RECEIVED DATE** : APRIL 3, 2024  
**ANALYTICAL DATE** : APRIL 3-8, 2024  
**ISSUE DATE** : APRIL 10, 2024  
**REPORT NO.** : 2024-U030745  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AH059-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AH059-0006	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	227	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

LABORATORY SUPERVISOR

APRIL 11, 2024

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WASTEWATER

**SAMPLING DATE** : MAY 10, 2024

**SAMPLING TIME** : 15:15 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 10, 2024

**ANALYTICAL DATE** : MAY 10-20, 2024

**ISSUE DATE** : MAY 21, 2024

**REPORT NO.** : 2024-U043477

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AJ890-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งปฐมาภาพ (ระบบภาพ) T24AJ890-0001	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.1 (3°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	186	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	62.7	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	440	25
SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.5	0.1
RESIDUAL CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	3.0	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	72.4	15
FAT, OIL, AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	3	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งปฐกภาพ (ระบมพำนำค) T24AJ890-0001	
MICROBIOLOGY				
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

ND : NON-DETECTABLE.



LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : MAY 10, 2024

**SAMPLING DATE** : MAY 10, 2024 **ANALYTICAL DATE** : MAY 10-20, 2024

**SAMPLING TIME** : 15:10 HOUR **ISSUE DATE** : MAY 21, 2024

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE **REPORT NO.** : 2024-U043478

**SAMPLING BY** : [REDACTED] **WORK NO.** : 2023-006131

**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AJ890-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งน้ำใส (ระบอบน้ำใส) T24AJ890-0002	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	6.3 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND*	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	10.7	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	31.3	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	426	25
SETTLABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.1
RESIDUAL CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	5.5	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งให้ (ระบบอัตโนมัติ) T24A3890-0002	
MICROBIOLOGY				
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	2,400	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	1,300	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.



LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : MAY 10, 2024

**SAMPLING TIME** : 15:05 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 10, 2024

**ANALYTICAL DATE** : MAY 10-20, 2024

**ISSUE DATE** : MAY 21, 2024

**REPORT NO.** : 2024-U043481

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AJ890-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลการตรวจคุณภาพน้ำ T24AJ890-0003		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	6.1 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND**	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	11.0	≤ 20	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	22.5	≤ 30	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	413	500*	25
SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> -F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			น้ำตรวจคุณภาพน้ำ T24AJ890-0003		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	330	-	1.8
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	7,900	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).



LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
 โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SUPPLY **RECEIVED DATE** : MAY 10, 2024  
**SAMPLING DATE** : MAY 10, 2024 **ANALYTICAL DATE** : MAY 10-16, 2024  
**SAMPLING TIME** : 15:20 HOUR **ISSUE DATE** : MAY 20, 2024  
**SAMPLING METHOD** : GRAB **REPORT NO.** : 2024-U042779  
**SAMPLING BY** : [REDACTED] **WORK NO.** : 2023-006131  
**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AJ890-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AJ890-0006	
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	309	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WASTEWATER

**SAMPLING DATE** : JUNE 5, 2024

**SAMPLING TIME** : 11:20 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 5, 2024

**ANALYTICAL DATE** : JUNE 5-16, 2024

**ISSUE DATE** : JUNE 19, 2024

**REPORT NO.** : 2024-U054401

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AM111-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งป้อนสภาพ (ระบอบนำปัด) T24AM111-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.0 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	164	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	49.6	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	405	25
SETTLEABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	0.2	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	4.6	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	75.4	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	9	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งปริมณภาพ (ระบณพำปัด) T24AM111-0001	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	>160,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B, C AND E)	>160,000	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

ND : NOT DETECTED.

[Redacted Signature]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : JUNE 5, 2024

**SAMPLING TIME** : 11:15 HOUR

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 5, 2024

**ANALYTICAL DATE** : JUNE 5-13, 2024

**ISSUE DATE** : JUNE 19, 2024

**REPORT NO.** : 2024-U054402

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AM111-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งน้ำใส (ระบอบน้ำปกติ) T24AM111-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.3 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a, c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	298	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	10.1	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถังน้ำใส (ระบบน้ำปิด) T24AM111-0002	
MICROBIOLOGY				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	160,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B, C AND E)	1,300	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NOT DETECTED.

[Redacted Signature]

LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : JUNE 5, 2024

**SAMPLING DATE** : JUNE 5, 2024 **ANALYTICAL DATE** : JUNE 5-13, 2024

**SAMPLING TIME** : 11:10 HOUR **ISSUE DATE** : JUNE 19, 2024

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE **REPORT NO.** : 2024-U054403

**SAMPLING BY** : [REDACTED] **WORK NO.** : 2023-006131

**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AM111-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			วัดทางคุณภาพน้ำ T24AM111-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND** <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	298	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	7.7	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มาตรฐานคุณภาพน้ำ T24AM111-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	920	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B, C AND E)	330	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NOT DETECTED.

[Redacted Signature]

LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WATER SUPPLY **RECEIVED DATE** : JUNE 5, 2024

**SAMPLING DATE** : JUNE 5, 2024 **ANALYTICAL DATE** : JUNE 5-11, 2024

**SAMPLING TIME** : 11:25 HOUR **ISSUE DATE** : JUNE 13, 2024

**SAMPLING METHOD <sup>a</sup>** : GRAB **REPORT NO.** : 2024-U052023

**SAMPLING BY <sup>c</sup>** : [REDACTED] **WORK NO.** : 2023-006131

**ANALYZED BY** : [REDACTED] **ANALYSIS NO.** : T24AM111-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T24AM111-0006	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM PART 2540 C)	225	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR



ภาคผนวก ค-3

ผลการติดตามตรวจสอบคุณภาพน้ำทิ้งจาก  
ระบบปรับอากาศและระบายอากาศ



**- End of Analysis Report -**

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : COOLING TOWER OF GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : COOLING WATER **RECEIVED DATE** : JANUARY 18, 2024

**SAMPLING DATE** : JANUARY 18, 2024 **ANALYTICAL DATE** : JANUARY 18-23, 2024

**SAMPLING TIME** : 10:35 HOUR **REPORT NO.** : 2024-U007032

**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2023-006131

**SAMPLING BY** : [REDACTED] **ANALYSIS NO.** : T24AB086-0005

**ANALYZED BY** : [REDACTED]

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			สำรวจใบ (COOLING TOWER) T24AB086-0005	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	8.8 (31°C)	-
RESIDUAL CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
MICROBIOLOGY				
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	33	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			YELLOW	

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

ND : NON-DETECTABLE.

[REDACTED]

LABORATORY SUPERVISOR

JANUARY 30, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : COOLING WATER  
**SAMPLING DATE** : MAY 28, 2024  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD \*** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 28, 2024  
**ANALYTICAL DATE** : MAY 28 - JUNE 4, 2024  
**ISSUE DATE** : JUNE 11, 2024  
**REPORT NO.** : 2024-U050964  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AL355-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			สารอินทรีย์ (COOLING TOWER) T24AL355-0001		
MICROBIOLOGY					
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR WHITE		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

[REDACTED]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : COOLING WATER  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD \*** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 18, 2024  
**ANALYTICAL DATE** : JANUARY 18-29, 2024  
**ISSUE DATE** : JANUARY 30, 2024  
**REPORT NO.** : 2024-U007033  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB086-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ท่อน้ำทิ้งจากหอผึ่งเย็น (COOLING TOWER) T24AB086-0006		
pH *	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	9.0 (31°C)	-	-
RESIDUAL CHLORINE *	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA *	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	79	-	1.8
<i>Legionella</i> spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001

ND : NON-DETECTABLE

[REDACTED]

LABORATORY SUPERVISOR

JANUARY 30, 2024

ภาคผนวก ค-4

ผลการติดตามตรวจสอบคุณภาพน้ำในสระว่ายนํ้า

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 12, 2024  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 12, 2024  
**ANALYTICAL DATE** : JANUARY 12-16, 2024  
**REPORT NO.** : 2024-U004928  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AA709-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AA709-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 11	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

JANUARY 19, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 12, 2024  
**SAMPLING TIME** : 10:35 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 12, 2024  
**ANALYTICAL DATE** : JANUARY 12-17, 2024  
**REPORT NO.** : 2024-U004929  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AA709-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AA709-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,940	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

JANUARY 19, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 10:45 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 18, 2024  
**ANALYTICAL DATE** : JANUARY 18-21, 2024  
**REPORT NO.** : 2024-U007034  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB086-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AB086-0007		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

JANUARY 30, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 18, 2024  
**ANALYTICAL DATE** : JANUARY 18-22, 2024  
**REPORT NO.** : 2024-U007035  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB086-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AB086-0008		
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,117	-	25
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

JANUARY 30, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 24, 2024  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 24, 2024  
**ANALYTICAL DATE** : JANUARY 24-31, 2024  
**ISSUE DATE** : FEBRUARY 2, 2024  
**REPORT NO.** : 2024-U009047  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB508-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AB508-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR

FEBRUARY 5, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 24, 2024  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 24, 2024  
**ANALYTICAL DATE** : JANUARY 24-31, 2024  
**ISSUE DATE** : FEBRUARY 2, 2024  
**REPORT NO.** : 2024-U009048  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB508-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AB508-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,891	-	25
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR .		

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

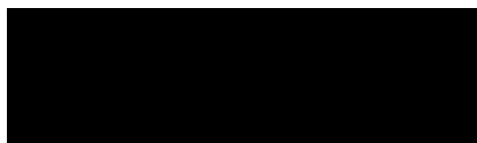
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

FEBRUARY 5, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&M HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 31, 2024  
**SAMPLING TIME** : 09:25 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 31, 2024  
**ANALYTICAL DATE** : JANUARY 31 - FEBRUARY 6, 2024  
**ISSUE DATE** : FEBRUARY 7, 2024  
**REPORT NO.** : 2024-U010326  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB919-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AB919-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>23	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIEMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

FEBRUARY 7, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JANUARY 31, 2024  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JANUARY 31, 2024  
**ANALYTICAL DATE** : JANUARY 31 - FEBRUARY 6, 2024  
**ISSUE DATE** : FEBRUARY 7, 2024  
**REPORT NO.** : 2024-U010327  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AB919-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AB919-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,734	-	25
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

FEBRUARY 7, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : FEBRUARY 7, 2024  
**SAMPLING TIME** : 12:20 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 8, 2024  
**ANALYTICAL DATE** : FEBRUARY 8-13, 2024  
**ISSUE DATE** : FEBRUARY 16, 2024  
**REPORT NO.** : 2024-U013480  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AC461-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AC461-0005		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,644	-	25
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR .		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

FEBRUARY 19, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : FEBRUARY 15, 2024  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 15, 2024  
**ANALYTICAL DATE** : FEBRUARY 15-21, 2024  
**ISSUE DATE** : FEBRUARY 23, 2024  
**REPORT NO.** : 2024-U015847  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AD115-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AD115-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR .		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

FEBRUARY 27, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL

**SAMPLING DATE** : FEBRUARY 15, 2024

**SAMPLING TIME** : 10:55 HOUR

**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE

**SAMPLING BY °** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 15, 2024

**ANALYTICAL DATE** : FEBRUARY 15-21, 2024

**ISSUE DATE** : FEBRUARY 23, 2024

**REPORT NO.** : 2024-U015848

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AD115-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AD115-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,455	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16268)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

FEBRUARY 27, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : FEBRUARY 21, 2024  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 21, 2024  
**ANALYTICAL DATE** : FEBRUARY 21-29, 2024  
**ISSUE DATE** : MARCH 5, 2024  
**REPORT NO.** : 2024-U018464  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AD596-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AD596-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

MARCH 6, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : FEBRUARY 21, 2024  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 21, 2024  
**ANALYTICAL DATE** : FEBRUARY 21-29, 2024  
**ISSUE DATE** : MARCH 5, 2024  
**REPORT NO.** : 2024-U018465  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AD596-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AD596-0002		
TOTAL DISSOLVED SOLIDS <sup>a</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,980	-	25
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR

MARCH 6, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : FEBRUARY 28, 2024  
**SAMPLING TIME** : 11:15 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 28, 2024  
**ANALYTICAL DATE** : FEBRUARY 28 - MARCH 5, 2024  
**ISSUE DATE** : MARCH 6, 2024  
**REPORT NO.** : 2024-U018744  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AE087-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AE087-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

MARCH 7, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2566  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : FEBRUARY 28, 2024  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : FEBRUARY 28, 2024  
**ANALYTICAL DATE** : FEBRUARY 28 - MARCH 5, 2024  
**ISSUE DATE** : MARCH 6, 2024  
**REPORT NO.** : 2024-U018745  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AE087-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AE087-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,650	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 18266)	DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

MARCH 7, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 6, 2024  
**SAMPLING TIME** : 11:35 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 7, 2024  
**ANALYTICAL DATE** : MARCH 7-14, 2024  
**ISSUE DATE** : MARCH 15, 2024  
**REPORT NO.** : 2024-U021873  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AE608-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AE608-0004		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 11	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

MARCH 18, 2024

◆ PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

◆ THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบต่อสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 6, 2024  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 7, 2024  
**ANALYTICAL DATE** : MARCH 7-14, 2024  
**ISSUE DATE** : MARCH 15, 2024  
**REPORT NO.** : 2024-U021874  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AE608-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AE608-0005		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,436	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

MARCH 18, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 13, 2024  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 13, 2024  
**ANALYTICAL DATE** : MARCH 13-20, 2024  
**ISSUE DATE** : MARCH 27, 2024  
**REPORT NO.** : 2024-U025224  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AF246-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AF246-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

MARCH 27, 2024





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 13, 2024  
**SAMPLING TIME** : 10:55 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 13, 2024  
**ANALYTICAL DATE** : MARCH 13-20, 2024  
**ISSUE DATE** : MARCH 27, 2024  
**REPORT NO.** : 2024-U025225  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AF246-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AF246-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,304	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	2.2	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

MARCH 27, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 21, 2024  
**SAMPLING TIME** : 10:35 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 22, 2024  
**ANALYTICAL DATE** : MARCH 22-29, 2024  
**ISSUE DATE** : APRIL 3, 2024  
**REPORT NO.** : 2024-U027688  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AG059-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AG059-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

APRIL 4, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 21, 2024  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 22, 2024  
**ANALYTICAL DATE** : MARCH 22-29, 2024  
**ISSUE DATE** : APRIL 3, 2024  
**REPORT NO.** : 2024-U027689  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AG059-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AG059-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,388	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	12	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

APRIL 4, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 27, 2024  
**SAMPLING TIME** : 12:00 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 27, 2024  
**ANALYTICAL DATE** : MARCH 27 - APRIL 3, 2024  
**ISSUE DATE** : APRIL 5, 2024  
**REPORT NO.** : 2024-U028458  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AG482-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AG482-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR

APRIL 8, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUJA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MARCH 27, 2024  
**SAMPLING TIME** : 12:05 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MARCH 27, 2024  
**ANALYTICAL DATE** : MARCH 27 - APRIL 3, 2024  
**ISSUE DATE** : APRIL 5, 2024  
**REPORT NO.** : 2024-U028460  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AG482-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AG482-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,480	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

APRIL 8, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบต่อสิ่งแวดล้อม  
**CUSTOMER NAME** : โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 3, 2024  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 3, 2024  
**ANALYTICAL DATE** : APRIL 3-9, 2024  
**ISSUE DATE** : APRIL 10, 2024  
**REPORT NO.** : 2024-U030740  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AH059-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AH059-0004		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR

APRIL 11, 2024

♦ PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

♦ THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบต่อสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 3, 2024  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 3, 2024  
**ANALYTICAL DATE** : APRIL 3-9, 2024  
**ISSUE DATE** : APRIL 10, 2024  
**REPORT NO.** : 2024-U030743  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AH059-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AH059-0005		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,184	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR

APRIL 11, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 11, 2024  
**SAMPLING TIME** : 14:40 HOUR  
**SAMPLING METHOD <sup>a</sup>** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>a</sup>** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 11, 2024  
**ANALYTICAL DATE** : APRIL 11-15, 2024  
**ISSUE DATE** : APRIL 24, 2024  
**REPORT NO.** : 2024-U034016  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AH871-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AH871-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

APRIL 25, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 11, 2024  
**SAMPLING TIME** : 14:35 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 11, 2024  
**ANALYTICAL DATE** : APRIL 11-23, 2024  
**ISSUE DATE** : APRIL 24, 2024  
**REPORT NO.** : 2024-U034017  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AH871-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AH871-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,984	-	25
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16286)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

APRIL 25, 2024



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 18, 2024  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 18, 2024  
**ANALYTICAL DATE** : APRIL 18-26, 2024  
**ISSUE DATE** : MAY 2, 2024  
**REPORT NO.** : 2024-U036402  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AJ068-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24A1068-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 18, 2024  
**SAMPLING TIME** : 10:55 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 18, 2024  
**ANALYTICAL DATE** : APRIL 18-26, 2024  
**ISSUE DATE** : MAY 2, 2024  
**REPORT NO.** : 2024-U036403  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AI068-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AI068-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,171	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 24, 2024  
**SAMPLING TIME** : 12:10 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 24, 2024  
**ANALYTICAL DATE** : APRIL 24-30, 2024  
**ISSUE DATE** : MAY 7, 2024  
**REPORT NO.** : 2024-U036972  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AI533-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AI533-0001		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIEMENTAL TO HEALTH, B.E. 2530 (1987).  
✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : APRIL 24, 2024  
**SAMPLING TIME** : 12:15 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : APRIL 24, 2024  
**ANALYTICAL DATE** : APRIL 24-30, 2024  
**ISSUE DATE** : MAY 7, 2024  
**REPORT NO.** : 2024-U036973  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AI533-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AI533-0002		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,110	-	25
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).  
✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 3, 2024  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 3, 2024  
**ANALYTICAL DATE** : MAY 3-9, 2024  
**ISSUE DATE** : MAY 13, 2024  
**REPORT NO.** : 2024-U039938  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AJ310-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AJ310-0001		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 3, 2024  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 3, 2024  
**ANALYTICAL DATE** : MAY 3-9, 2024  
**ISSUE DATE** : MAY 13, 2024  
**REPORT NO.** : 2024-U039940  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AJ310-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AJ310-0002		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,133	-	25
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 14:55 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 10, 2024  
**ANALYTICAL DATE** : MAY 10-20, 2024  
**ISSUE DATE** : MAY 21, 2024  
**REPORT NO.** : 2024-U043483  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AJ890-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AJ890-0004		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIEMENTAL TO HEALTH, B.E. 2530 (1987).  
✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 15:00 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 10, 2024  
**ANALYTICAL DATE** : MAY 10-20, 2024  
**ISSUE DATE** : MAY 21, 2024  
**REPORT NO.** : 2024-U043485  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AJ890-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AJ890-0005		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,095	-	25
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).  
✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบต่อสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 15, 2024  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 15, 2024  
**ANALYTICAL DATE** : MAY 15-22, 2024  
**ISSUE DATE** : MAY 24, 2024  
**REPORT NO.** : 2024-U044621  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AK274-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AK274-0001		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10.	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).  
✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 15, 2024  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 15, 2024  
**ANALYTICAL DATE** : MAY 15-22, 2024  
**ISSUE DATE** : MAY 24, 2024  
**REPORT NO.** : 2024-U044622  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AK274-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AK274-0002		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,307	-	25
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16286)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED SIGNATURE]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 23, 2024  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 23, 2024  
**ANALYTICAL DATE** : MAY 24-30, 2024  
**ISSUE DATE** : MAY 31, 2024  
**REPORT NO.** : 2024-U047732  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AK964-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AK964-0001		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIEMENTAL TO HEALTH, B.E. 2530 (1987).  
✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 23, 2024  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 23, 2024  
**ANALYTICAL DATE** : MAY 24-30, 2024  
**ISSUE DATE** : MAY 31, 2024  
**REPORT NO.** : 2024-U047733  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AK964-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AK964-0002		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,806	-	25
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	22	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 18266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567

**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED

**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110

**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]

**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55

**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL

**SAMPLING DATE** : MAY 28, 2024

**SAMPLING TIME** : 11:35 HOUR

**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE

**SAMPLING BY** : [REDACTED]

**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 28, 2024

**ANALYTICAL DATE** : MAY 28 - JUNE 2, 2024

**ISSUE DATE** : JUNE 11, 2024

**REPORT NO.** : 2024-U050965

**WORK NO.** : 2023-006131

**ANALYSIS NO.** : T24AL355-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AL355-0002		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 28, 2024  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : MAY 28, 2024  
**ANALYTICAL DATE** : MAY 28 - JUNE 2, 2024  
**ISSUE DATE** : JUNE 11, 2024  
**REPORT NO.** : 2024-U050966  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AL355-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AL355-0003		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,738	-	25
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	< 1.1	< 10	1.1
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<i>Staphylococcus aureus</i>	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIEMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 5, 2024  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 5, 2024  
**ANALYTICAL DATE** : JUNE 5-12, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054404  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM111-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AM111-0004		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 5, 2024  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD \*** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 5, 2024  
**ANALYTICAL DATE** : JUNE 5-9, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054405  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM111-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AM111-0004		
MICROBIOLOGY					
<i>Staphylococcus aureus</i>	/100 mL	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF. 24th Edition, 2023. Part 9213 B.	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 5, 2024  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 5, 2024  
**ANALYTICAL DATE** : JUNE 5-12, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054406  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM111-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AM111-0005		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,735	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 5, 2024  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD \*** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 5, 2024  
**ANALYTICAL DATE** : JUNE 5-9, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054407  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM111-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AM111-0005		
MICROBIOLOGY					
Staphylococcus aureus	/100 mL	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF. 24th Edition, 2023. Part 9213 B.	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 12, 2024  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 12, 2024  
**ANALYTICAL DATE** : JUNE 12-19, 2024  
**ISSUE DATE** : JUNE 26, 2024  
**REPORT NO.** : 2024-U057575  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM903-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AM903-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 12, 2024  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD \*** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 12, 2024  
**ANALYTICAL DATE** : JUNE 12-19, 2024  
**ISSUE DATE** : JUNE 26, 2024  
**REPORT NO.** : 2024-U057576  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM903-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AM903-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i>	/100 mL	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 9213 B.	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 12, 2024  
**SAMPLING TIME** : 10:55 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 12, 2024  
**ANALYTICAL DATE** : JUNE 12-19, 2024  
**ISSUE DATE** : JUNE 26, 2024  
**REPORT NO.** : 2024-U057577  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM903-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AM903-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,595	-	25
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 12, 2024  
**SAMPLING TIME** : 10:55 HOUR  
**SAMPLING METHOD \*** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 12, 2024  
**ANALYTICAL DATE** : JUNE 12-19, 2024  
**ISSUE DATE** : JUNE 26, 2024  
**REPORT NO.** : 2024-U057578  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AM903-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AM903-0002		
MICROBIOLOGY					
Staphylococcus aureus	/100 mL	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF. 24th Edition, 2023. Part 9213 B.	NOT DETECTED	✓	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT					

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 19, 2024  
**SAMPLING TIME** : 13:00 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 19, 2024  
**ANALYTICAL DATE** : JUNE 19-25, 2024  
**ISSUE DATE** : JULY 3, 2024  
**REPORT NO.** : 2024-U060048  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AN668-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AN668-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

[REDACTED]

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 19, 2024  
**SAMPLING TIME** : 13:00 HOUR  
**SAMPLING METHOD \*** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 19, 2024  
**ANALYTICAL DATE** : JUNE 19-25, 2024  
**ISSUE DATE** : JULY 3, 2024  
**REPORT NO.** : 2024-U060049  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AN668-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AN668-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i>	/100 mL	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF. 24th Edition, 2023. Part 9213 B.	NOT DETECTED	1/	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 19, 2024  
**SAMPLING TIME** : 13:05 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 19, 2024  
**ANALYTICAL DATE** : JUNE 19-26, 2024  
**ISSUE DATE** : JULY 3, 2024  
**REPORT NO.** : 2024-U060050  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AN668-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AN668-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,927	-	25
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 19, 2024  
**SAMPLING TIME** : 13:05 HOUR  
**SAMPLING METHOD \*** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 19, 2024  
**ANALYTICAL DATE** : JUNE 19-25, 2024  
**ISSUE DATE** : JULY 3, 2024  
**REPORT NO.** : 2024-U060051  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AN668-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AN668-0002		
MICROBIOLOGY					
<i>Staphylococcus aureus</i>	/100 mL	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF. 24th Edition, 2023. Part 9213 B.	NOT DETECTED	✓	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 26, 2024  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 26, 2024  
**ANALYTICAL DATE** : JUNE 26 - JULY 2, 2024  
**ISSUE DATE** : JULY 9, 2024  
**REPORT NO.** : 2024-U062189  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AO261-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24A0261-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221D AND F)	NOT DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
SAMPLE CONDITION			COLOURLESS/CLEAR  -		
WATER'S COLOUR/TURBID					
SEDIMENT					

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

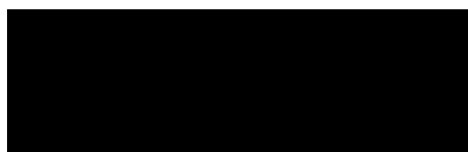
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIKTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 26, 2024  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD \*** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 26, 2024  
**ANALYTICAL DATE** : JUNE 26 - JULY 2, 2024  
**ISSUE DATE** : JULY 9, 2024  
**REPORT NO.** : 2024-U062190  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AO261-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T24AO261-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i>	/100 mL	STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. APHA, AWWA, WEF. 24th EDITION, 2023. PART 9213 B.	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 26, 2024  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 26, 2024  
**ANALYTICAL DATE** : JUNE 26 - JULY 2, 2024  
**ISSUE DATE** : JULY 9, 2024  
**REPORT NO.** : 2024-U062191  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24A0261-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24A0261-0002		
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,213	-	25
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	2.2	< 10	1.1
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	DETECTED	NOT DETECTED	-
<i>Pseudomonas aeruginosa</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	✓	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIENTAL TO HEALTH, B.E. 2530 (1987).

✓ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม  
โครงการ GRANDE CENTRE POINT HOTEL SUKHUMVIT 55 ประจำปี 2567  
**CUSTOMER NAME** : L&H HOTEL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 300 SUKHUMVIT 55 (THONGLOR) KHLONG TAN NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : TEL : [REDACTED] e-mail : [REDACTED]  
**SAMPLING SOURCE** : GRANDE CENTRE POINT HOTEL SUKHUMVIT 55  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : JUNE 26, 2024  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD \*** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY \*** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : JUNE 26, 2024  
**ANALYTICAL DATE** : JUNE 26 - JULY 2, 2024  
**ISSUE DATE** : JULY 9, 2024  
**REPORT NO.** : 2024-U062192  
**WORK NO.** : 2023-006131  
**ANALYSIS NO.** : T24AO261-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T24AO261-0002		
MICROBIOLOGY					
Staphylococcus aureus	/100 mL	STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. APHA, AWWA, WEF. 24th EDITION, 2023. PART 9213 B.	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

THE LABORATORY HAS BEEN ACCEPTED AS AN ACCREDITED LABORATORY COMPLYING WITH THE ISO/IEC 17025.

\* : TEST METHOD ARE NOT COVERED COMPLYING WITH THE ISO/IEC 17025, VERIFIED BY OWN LABORATORY QUALITY SYSTEM.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.



LABORATORY SUPERVISOR