

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565

CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

ADDRESS : 153/2 SOI MAHATLEK LUANG 1 RATCHADAMRI ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WASTEWATER

SAMPLING DATE : OCTOBER 5, 2022

SAMPLING TIME : 14:10 HOUR

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : OCTOBER 5, 2022

ANALYTICAL DATE : OCTOBER 5-12, 2022

REPORT NO. : 2022-U080815

WORK NO. : 2021-006040

ANALYSIS NO. : T22AT763-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ่อปรับสภาพน้ำ T22AT763-0001	
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.0 (28°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	416	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	749	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	253	25
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	2.8	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	51.2	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	11	3
MICROBIOLOGY				
COLIFORM BACTERIA ^d	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREY	

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

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

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

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

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

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

OCTOBER 21, 2022



ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565

CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

ADDRESS : 153/2 SOI MAHATLEK LUANG 1 RATCHADAMRI ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : EFFLUENT **RECEIVED DATE** : OCTOBER 5, 2022

SAMPLING DATE : OCTOBER 5, 2022 **ANALYTICAL DATE** : OCTOBER 5-12, 2022

SAMPLING TIME : 14:05 HOUR **REPORT NO.** : 2022-U080816

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE **WORK NO.** : 2021-006040

SAMPLING BY : MR WEERAYUT MOKKAEW **ANALYSIS NO.** : T22AT763-0002

ANALYZED BY : MISS AMONRAT PUTTALEE

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอสน้ำทิ้ง T22AT763-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	6.9 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	36.9	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	45.4	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	237	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	0.2	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	36.2	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อสูบน้ำทิ้ง T22AT763-0002		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			GREY		

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

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

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

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd 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.

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

Benjawan V.

(MISS BENJAWAN VIRIYOTHAJ)
LABORATORY SUPERVISOR

OCTOBER 21, 2022

ANALYSIS REPORT

PROJECT NAME : การตรวจวัดคุณภาพสิ่งแวดล้อม และการตรวจสอบการปฏิบัติตามมาตรฐานการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565

CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

ADDRESS : 153/2 SOI MAHATLEK LUANG 1 RATCHADAMRI ROAD LUMPHINI PATHUM WAN BANGKOK 10330

CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL

SAMPLING DATE : OCTOBER 5, 2022

SAMPLING TIME : 14:00 HOUR

SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE

SAMPLING BY ^c : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : OCTOBER 5, 2022

ANALYTICAL DATE : OCTOBER 5-10, 2022

REPORT NO. : 2022-U080817

WORK NO. : 2021-006040

ANALYSIS NO. : T22AT763-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T22AT763-0003		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
STANDARD PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	76	-	1
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT					

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

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

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

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

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



(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

OCTOBER 21, 2022

