

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 : JULY 16, 2022

SAMPLING TIME : 10:35 HOUR

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JULY 16, 2022

ANALYTICAL DATE : JULY 16-26, 2022

REPORT NO. : 2022-U058388

WORK NO. : 2021-006040

ANALYSIS NO. : T22AO140-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ่อรับสภาพน้ำ T22AO140-0001	
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.2 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	354	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	499	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	415	25
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	82.1	1.5
SULPHIDE ^c	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	8.3	0.50
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	36	3
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	1.8
SAMPLE CONDITION			YELLOW/TURBID	
WATER'S COLOUR/TURBID			GREY	
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

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 VIRIYOTHA)
LABORATORY SUPERVISOR

JULY 26, 2022



ANALYSIS REPORT

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โครงการ GRANDE CENTRE POINT HOTEL RATCHADAMRI ประจำปี 2565

CUSTOMER NAME : L&H HOTEL MANAGEMENT COMPANY LIMITED

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

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : EFFLUENT

SAMPLING DATE : JULY 16, 2022

SAMPLING TIME : 10:50 HOUR

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JULY 16, 2022

ANALYTICAL DATE : JULY 16-26, 2022

REPORT NO. : 2022-U058389

WORK NO. : 2021-006040

ANALYSIS NO. : T22AO140-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอสน้ำทิ้ง T22AO140-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	6.7 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	25.9	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	22.2	≤ 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	370	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 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	15.6	≤ 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
			ข้อมูลน้ำทิ้ง T22A0140-0002		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 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 VIRIYOTHAI)
LABORATORY SUPERVISOR

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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 : JULY 16, 2022
SAMPLING TIME : 10:25 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 16, 2022
ANALYTICAL DATE : JULY 16-18, 2022
REPORT NO. : 2022-U057765
WORK NO. : 2021-006040
ANALYSIS NO. : T22AO140-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T22AO140-0003		
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)	ABSENCE	ABSENCE	-
STANDARD PLATE COUNT ^b	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	< 1	-	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

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SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WATER SUPPLY

SAMPLING DATE : JULY 16, 2022

SAMPLING TIME : 10:10 HOUR

SAMPLING METHOD^b : STERILE TECHNIQUE

SAMPLING BY^b : MR WEERAYUT MOKKAEW

ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 16, 2022

ANALYTICAL DATE : JULY 16-25, 2022

REPORT NO. : 2022-U058390

WORK NO. : 2021-006040

ANALYSIS NO. : T22AO140-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ROOF TANK T22AO140-0004
MICROBIOLOGY			
<i>Legionella</i> spp. ^a	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED
SAMPLE CONDITION			COLOURLESS/CLEAR -
WATER'S COLOUR/TURBID			
SEDIMENT			

^a : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)

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



(MISS CHAWEEWAN BOONLA)
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CONTACT INFORMATION : TEL : 08 1926 3779 e-mail : pornchai.k@gcphotels.com

SAMPLING SOURCE : GRANDE CENTRE POINT HOTEL RATCHADAMRI

SAMPLE TYPE : WATER SUPPLY **RECEIVED DATE** : JULY 16, 2022

SAMPLING DATE : JULY 16, 2022 **ANALYTICAL DATE** : JULY 16-25, 2022

SAMPLING TIME : 10:20 HOUR **REPORT NO.** : 2022-U058391

SAMPLING METHOD^b : STERILE TECHNIQUE **WORK NO.** : 2021-006040

SAMPLING BY^b : MR WEERAYUT MOKKAEW **ANALYSIS NO.** : T22AO140-0005

ANALYZED BY : MISS ITSARIYAPORN BUATIB

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ห้องพักแขก T22AO140-0005
MICROBIOLOGY			
Legionella spp. ^a	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED
SAMPLE CONDITION			
WATER'S COLOUR/TURBID			-
SEDIMENT			-

^a : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)

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



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

JULY 26, 2022

