

ภาคผนวก ง

ใบรายงานผลวิเคราะห์

ANALYSIS REPORT

CUSTOMER NAME : LH MALL & HOTEL COMPANY LIMITED
ADDRESS : 356 RAMA III ROAD BANG KHLO BANG KHO LAEM BANGKOK 10120
CONTACT INFORMATION : TEL : 0 2343 8899 e-mail : wiwat.r@terminal21.co.th
SAMPLING SOURCE : TERMINAL 21 RAMA 3
SAMPLE TYPE : COOLING WATER
SAMPLING DATE : JULY 12, 2024
SAMPLING TIME : 13:20 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS BUSSAKORN MAJAI
RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-25, 2024
ISSUE DATE : AUGUST 2, 2024
REPORT NO. : 2024-U070403
WORK NO. : 2023-010295
ANALYSIS NO. : T24AP891-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			จุดที่น้ำไหลเข้ามา เดิมในระบบ T24AP891-0001	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.7 (31°C)	-
FREE CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
MICROBIOLOGY				
TOTAL BACTERIA	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	8.3x10 ²	1
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.
ND : NOT DETECTED.



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR



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SAMPLE TYPE : COOLING WATER
SAMPLING DATE : JULY 12, 2024
SAMPLING TIME : 13:20 HOUR
SAMPLING METHOD * : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY * : MR SUKSAN BOONLEANG
ANALYZED BY : MISS ITSARIYAPORN BUATIB
RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-25, 2024
ISSUE DATE : AUGUST 2, 2024
REPORT NO. : 2024-U070910
WORK NO. : 2023-010295
ANALYSIS NO. : T24AP891-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดที่น้ำไหลเข้ามาเดิมในระบบ T24AP891-0001		
MICROBIOLOGY					
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	700	NOT DETECTED	100
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 : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 8, 2001.



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SAMPLING SOURCE : TERMINAL 21 RAMA 3
SAMPLE TYPE : COOLING WATER
SAMPLING DATE : JULY 12, 2024
SAMPLING TIME : 13:15 HOUR
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ANALYZED BY : MISS BUSSAKORN MAJAI
RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-25, 2024
ISSUE DATE : AUGUST 2, 2024
REPORT NO. : 2024-U070404
WORK NO. : 2023-010295
ANALYSIS NO. : T24AP891-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			น้ำในอ่างรองรับน้ำ T24AP891-0002	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.8 (31°C)	-
FREE CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
MICROBIOLOGY				
TOTAL BACTERIA	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	1.5x10 ⁵	1
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -	

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

ND : NOT DETECTED.



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SAMPLE TYPE : COOLING WATER
SAMPLING DATE : JULY 12, 2024
SAMPLING TIME : 13:15 HOUR
SAMPLING METHOD * : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY * : MR SUKSAN BOONLEANG
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 12, 2024
ANALYTICAL DATE : JULY 12-25, 2024
ISSUE DATE : AUGUST 2, 2024
REPORT NO. : 2024-U070911
WORK NO. : 2023-010295
ANALYSIS NO. : T24AP891-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			น้ำในอ่างรองรับน้ำ T24AP891-0002		
MICROBIOLOGY					
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			-		

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REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 8, 2001.



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SAMPLING SOURCE : TERMINAL 21 RAMA 3
SAMPLE TYPE : COOLING WATER **RECEIVED DATE** : JULY 12, 2024
SAMPLING DATE : JULY 12, 2024 **ANALYTICAL DATE** : JULY 12-25, 2024
SAMPLING TIME : 13:30 HOUR **ISSUE DATE** : AUGUST 2, 2024
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE **REPORT NO.** : 2024-U070405
SAMPLING BY : MR SUKSAN BOONLEANG **WORK NO.** : 2023-010295
ANALYZED BY : MISS BUSSAKORN MAJAI **ANALYSIS NO.** : T24AP891-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ท่อน้ำทิ้ง จากหอสังเียน T24AP891-0003	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.9 (31°C)	-
FREE CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
MICROBIOLOGY				
TOTAL BACTERIA	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	9.2x10 ⁴	1
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -	

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ND : NOT DETECTED.



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ANALYZED BY : MISS ITSARIYAPORN BUATIB
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ISSUE DATE : AUGUST 2, 2024
REPORT NO. : 2024-U070912
WORK NO. : 2023-010295
ANALYSIS NO. : T24AP891-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ท่อน้ำทิ้ง จากหอผึ่งเย็น T24AP891-0003		
MICROBIOLOGY					
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			-		

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