

ANALYSIS REPORT

CUSTOMER NAME : CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
ADDRESS : 1 DAMNERNKASEM ROAD HUA HIN HUA HIN PRACHUAP KHIRI KHAN 77110
CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JULY 8, 2025
SAMPLING TIME : 08:10 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS CHATRAPORN RATCHANET
RECEIVED DATE : JULY 9, 2025
ANALYTICAL DATE : JULY 9-12, 2025
ISSUE DATE : JULY 23, 2025
REPORT NO. : 2025-U067094
WORK NO. : 2024-012034
ANALYSIS NO. : T25AP218-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL WATER T25AP218-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.5 (25°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	3.2	0.6-1.0	0.1
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

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

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT RESIDUAL CHLORINE
BY REPORTING ACCORDING TO UAE.WI.046.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR



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CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : AUGUST 12, 2025
SAMPLING TIME : 08:20 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS CHATTRAPORN RATCHANET

RECEIVED DATE : AUGUST 13, 2025
ANALYTICAL DATE : AUGUST 13-17, 2025
ISSUE DATE : AUGUST 26, 2025
REPORT NO. : 2025-U076278
WORK NO. : 2024-012034
ANALYSIS NO. : T25AR541-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL WATER T25AR541-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.6 (25°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	1.5	0.6-1.0	0.1
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

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

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT RESIDUAL CHLORINE
BY REPORTING ACCORDING TO UAE.WI.046.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR



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ADDRESS : 1 DAMNERNKASEM ROAD HUA HIN HUA HIN PRACHUAP KHIRI KHAN 77110
CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 9, 2025
SAMPLING TIME : 08:30 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : SEPTEMBER 10, 2025
ANALYTICAL DATE : SEPTEMBER 10-15, 2025
ISSUE DATE : SEPTEMBER 25, 2025
REPORT NO. : 2025-U085734
WORK NO. : 2024-012034
ANALYSIS NO. : T25AU081-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL WATER T25AU081-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.0 (25°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	6.9	0.6-1.0	0.1
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

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

COMMENT : TOTAL COLIFORMS AND *E.coli* ARE COMPLIED WITH REGULATORY STANDARD EXCEPT pH AND RESIDUAL CHLORINE BY REPORTING ACCORDING TO UAE.WI.046.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR



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CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : OCTOBER 7, 2025
SAMPLING TIME : 08:30 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS JITSAMON NGAMKANA
RECEIVED DATE : OCTOBER 8, 2025
ANALYTICAL DATE : OCTOBER 8-15, 2025
ISSUE DATE : OCTOBER 21, 2025
REPORT NO. : 2025-U095505
WORK NO. : 2024-012034
ANALYSIS NO. : T25AW792-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL WATER T25AW792-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.6 (25°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	11.8	0.6-1.0	0.1
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

COMMENT : TOTAL COLIFORMS AND *E.coli* ARE COMPLIED WITH REGULATORY STANDARD EXCEPT pH AND RESIDUAL CHLORINE BY REPORTING ACCORDING TO UAE.WI.046.

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ADDRESS : 1 DAMNERNKASEM ROAD HUA HIN HUA HIN PRACHUAP KHIRI KHAN 77110
CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : NOVEMBER 11, 2025
SAMPLING TIME : 08:10 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS CHATRAPORN RATCHANET

RECEIVED DATE : NOVEMBER 13, 2025
ANALYTICAL DATE : NOVEMBER 13-17, 2025
ISSUE DATE : NOVEMBER 21, 2025
REPORT NO. : 2025-U106091
WORK NO. : 2024-012034
ANALYSIS NO. : T25AZ648-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL WATER T25AZ648-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.3 (25°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	5.8	0.6-1.0	0.1
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

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

COMMENT : ALL TEST PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT RESIDUAL CHLORINE
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CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : DECEMBER 9, 2025
SAMPLING TIME : 08:10 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS CHATRAPORN RATCHANET
RECEIVED DATE : DECEMBER 11, 2025
ANALYTICAL DATE : DECEMBER 11-16, 2025
ISSUE DATE : DECEMBER 24, 2025
REPORT NO. : 2025-U116801
WORK NO. : 2024-012034
ANALYSIS NO. : T25BB960-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL WATER T25BB960-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	7.2-8.4	-
RESIDUAL CHLORINE ^c	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	2.6	0.6-1.0	0.1
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

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

COMMENT : ALL TEST PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT RESIDUAL CHLORINE
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