

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 : BEACH IN FRONT OF CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
SAMPLE TYPE : SEAWATER **RECEIVED DATE** : JULY 9, 2025
SAMPLING DATE : JULY 8, 2025 **ANALYTICAL DATE** : JULY 9-15, 2025
SAMPLING TIME : 08:00 HOUR **ISSUE DATE** : JULY 23, 2025
SAMPLING METHOD : - **REPORT NO.** : 2025-U067093
SAMPLING BY : CUSTOMER **WORK NO.** : 2024-012034
ANALYZED BY : MISS BUSSAKORN MAJAI **ANALYSIS NO.** : T25AP218-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SEAWATER T25AP218-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	7.0-8.5	-
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 24th ED., 2023, PART 4500-NH ₃ H	142	≤ 200	10.0
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	240	≤ 1,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR WHITE		

^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 : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564.
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 138, PART 245 D, DATED OCTOBER 6, 2021.

CLASS 4 : RECREATION AREAS SHALL BE APPLIED TO THE WATER ALLOWED BY THE LOCAL ADMINISTRATIVE ORGANIZATION
FOR SWIMMING OR OTHER RECREATIONAL ACTIVITIES.

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD 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 : BEACH IN FRONT OF CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
SAMPLE TYPE : SEAWATER **RECEIVED DATE** : AUGUST 13, 2025
SAMPLING DATE : AUGUST 12, 2025 **ANALYTICAL DATE** : AUGUST 13-19, 2025
SAMPLING TIME : 08:10 HOUR **ISSUE DATE** : AUGUST 26, 2025
SAMPLING METHOD : - **REPORT NO.** : 2025-U076277
SAMPLING BY : CUSTOMER **WORK NO.** : 2024-012034
ANALYZED BY : MISS BUSSAKORN MAJAI **ANALYSIS NO.** : T25AR541-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SEAWATER T25AR541-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.6 (25°C)	7.0-8.5	-
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 24th ED., 2023, PART 4500-NH ₃ H	147	≤ 200	10.0
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	790	≤ 1,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

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PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 138, PART 245 D, DATED OCTOBER 6, 2021.

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CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : BEACH IN FRONT OF CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
SAMPLE TYPE : SEAWATER **RECEIVED DATE** : SEPTEMBER 10, 2025
SAMPLING DATE : SEPTEMBER 9, 2025 **ANALYTICAL DATE** : SEPTEMBER 10-17, 2025
SAMPLING TIME : 08:20 HOUR **ISSUE DATE** : SEPTEMBER 25, 2025
SAMPLING METHOD : - **REPORT NO.** : 2025-U085733
SAMPLING BY : CUSTOMER **WORK NO.** : 2024-012034
ANALYZED BY : MR NUTTACHOK LAKHAMMOON **ANALYSIS NO.** : T25AU081-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SEAWATER T25AU081-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	7.0-8.5	-
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 24th ED., 2023, PART 4500-NH ₃ H	97.9	≤ 200	10.0
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	2,400	≤ 1,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

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PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 138, PART 245 D, DATED OCTOBER 6, 2021.

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

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

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 : BEACH IN FRONT OF CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
SAMPLE TYPE : SEAWATER **RECEIVED DATE** : OCTOBER 8, 2025
SAMPLING DATE : OCTOBER 7, 2025 **ANALYTICAL DATE** : OCTOBER 8-16, 2025
SAMPLING TIME : 08:20 HOUR **ISSUE DATE** : OCTOBER 21, 2025
SAMPLING METHOD : - **REPORT NO.** : 2025-U095502
SAMPLING BY : CUSTOMER **WORK NO.** : 2024-012034
ANALYZED BY : MR NUTTACHOK LAKHAMMOON **ANALYSIS NO.** : T25AW792-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SEAWATER T25AW792-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	7.0-8.5	-
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 24th ED., 2023, PART 4500-NH ₃ H	142	≤ 200	10.0
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	3,300	≤ 1,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

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REGULATORY STANDARD : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564.
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COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT TOTAL COLIFORMS
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CONTACT INFORMATION : TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th
SAMPLING SOURCE : BEACH IN FRONT OF CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
SAMPLE TYPE : SEAWATER
SAMPLING DATE : NOVEMBER 11, 2025
SAMPLING TIME : 08:00 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : NOVEMBER 13, 2025
ANALYTICAL DATE : NOVEMBER 13-19, 2025
ISSUE DATE : NOVEMBER 21, 2025
REPORT NO. : 2025-U106090
WORK NO. : 2024-012034
ANALYSIS NO. : T25AZ648-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SEAWATER T25AZ648-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.7 (25°C)	7.0-8.5	-
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 24th ED., 2023, PART 4500-NH ₃ H	303	≤ 200	10.0
MICROBIOLOGY					
TOTAL COLIFORMS ^c	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	110	≤ 1,000	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

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SAMPLING SOURCE : BEACH IN FRONT OF CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN
SAMPLE TYPE : SEAWATER
SAMPLING DATE : DECEMBER 9, 2025
SAMPLING TIME : 08:00 HOUR
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS CHATRAPORN RATCHANET

RECEIVED DATE : DECEMBER 11, 2025
ANALYTICAL DATE : DECEMBER 11-17, 2025
ISSUE DATE : DECEMBER 24, 2025
REPORT NO. : 2025-U116799
WORK NO. : 2024-012034
ANALYSIS NO. : T25BB960-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SEAWATER T25BB960-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.2 (25°C)	7.0-8.5	-
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 24th ED., 2023, PART 4500-NH ₃ H	148	≤ 200	10.0
MICROBIOLOGY					
TOTAL COLIFORMS ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	4,900	≤ 1,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

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