

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN	<b>RECEIVED DATE</b>	: JULY 9, 2025
<b>ADDRESS</b>	: 1 DAMNERNKASEM ROAD HUA HIN HUA HIN PRACHUAP KHIRI KHAN 77110	<b>ANALYTICAL DATE</b>	: JULY 9-17, 2025
<b>CONTACT INFORMATION</b>	: TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th	<b>ISSUE DATE</b>	: JULY 17, 2025
<b>SAMPLING SOURCE</b>	: WASTEWATER TREATMENT PLANT	<b>REPORT NO.</b>	: 2025-U065508
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>WORK NO.</b>	: 2024-012034
<b>SAMPLING DATE</b>	: JULY 8, 2025	<b>ANALYSIS NO.</b>	: T25AP217-0001 - T25AP217-0002
<b>SAMPLING TIME</b>	: 1/		
<b>SAMPLING METHOD</b>	: -		
<b>SAMPLING BY</b>	: CUSTOMER		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:10 HOUR 1/ T25AP217-0001	2 09:20 HOUR 1/ T25AP217-0002			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	6.6 (25°C)	7.2 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	168	6.0	≤ 20	-	2.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	155	19.5	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	-	273	≤ 1,000	-	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	-	< 0.1	-	0.1	-
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> <sup>-</sup> F)	-	< 0.50	≤ 1.0	-	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	-	10.0	≤ 35	1.5	5.0
OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	-	< 3	≤ 20	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:10 HOUR 1/ T25AP217-0001	2 09:20 HOUR 1/ T25AP217-0002			
MICROBIOLOGY							
TOTAL COLIFORMS <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	-	940	-	1.8	-
SAMPLE CONDITION							
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/TURBID BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 24<sup>th</sup> EDITION, 2023.

RESULT 1 : INLUENT OF WASTEWATER TREATMENT PLANT

RESULT 2 : EFLUENT OF WASTEWATER TREATMENT PLANT

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 141, PART 233 D, DATED AUGUST 27, 2024.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD BY REPORTING ACCORDING TO UAE.WI.046.

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: CENTARA GRAND BEACH RESORT AND VILLAS HUA HIN	<b>RECEIVED DATE</b>	: AUGUST 13, 2025
<b>ADDRESS</b>	: 1 DAMNERNKASEM ROAD HUA HIN HUA HIN PRACHUAP KHIRI KHAN 77110	<b>ANALYTICAL DATE</b>	: AUGUST 13-20, 2025
<b>CONTACT INFORMATION</b>	: TEL : 09 5624 7946 e-mail : engsecretary@chr.co.th	<b>ISSUE DATE</b>	: AUGUST 21, 2025
<b>SAMPLING SOURCE</b>	: WASTEWATER TREATMENT PLANT	<b>REPORT NO.</b>	: 2025-U074944
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>WORK NO.</b>	: 2024-012034
<b>SAMPLING DATE</b>	: AUGUST 12, 2025	<b>ANALYSIS NO.</b>	: T25AR540-0001 - T25AR540-0002
<b>SAMPLING TIME</b>	: 1/		
<b>SAMPLING METHOD</b>	: -		
<b>SAMPLING BY</b>	: CUSTOMER		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 08:40 HOUR 1/ T25AR540-0001	2 08:50 HOUR 1/ T25AR540-0002			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	6.3 (25°C)	7.5 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	359	< 2.0	≤ 20	-	2.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	207	14.3	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	-	236	≤ 1,000	-	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	-	< 0.1	-	0.1	-
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> <sup>-</sup> F)	-	< 0.50	≤ 1.0	-	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	-	15.0	≤ 35	1.5	5.0
OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	-	< 3	≤ 20	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 08:40 HOUR 1/ T25AR540-0001	2 08:50 HOUR 1/ T25AR540-0002			
MICROBIOLOGY							
TOTAL COLIFORMS <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	-	27	-	1.8	-
SAMPLE CONDITION							
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 24<sup>th</sup> EDITION, 2023.

RESULT 1 : INFLUENT OF WASTEWATER TREATMENT PLANT

RESULT 2 : EFFLUENT OF WASTEWATER TREATMENT PLANT

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 141, PART 233 D, DATED AUGUST 27, 2024.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD BY REPORTING ACCORDING TO UAE.WI.046.

[REDACTED]

(MISS WILAILAK SRISUK)  
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** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : SEPTEMBER 9, 2025  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : SEPTEMBER 10, 2025  
**ANALYTICAL DATE** : SEPTEMBER 10-17, 2025  
**ISSUE DATE** : SEPTEMBER 18, 2025  
**REPORT NO.** : 2025-U084410  
**WORK NO.** : 2024-012034  
**ANALYSIS NO.** : T25AU080-0001 - T25AU080-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:10 HOUR 1/ T25AU080-0001	2 09:20 HOUR 1/ T25AU080-0002			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	6.9 (25°C)	7.1 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	311	6.1	≤ 20	-	2.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	729	22.5	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	-	242	≤ 1,000	-	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	-	< 0.1	-	0.1	-
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> <sup>-</sup> F)	-	< 0.50	≤ 1.0	-	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	-	ND	≤ 35	1.5	5.0
OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	-	< 3	≤ 20	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:10 HOUR 1/ T25AU080-0001	2 09:20 HOUR 1/ T25AU080-0002			
MICROBIOLOGY							
TOTAL COLIFORMS <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	-	240	-	1.8	-
SAMPLE CONDITION							
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 24<sup>th</sup> EDITION, 2023.

RESULT 1 : INFLUENT OF WASTEWATER TREATMENT PLANT

RESULT 2 : EFFLUENT OF WASTEWATER TREATMENT PLANT

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 141, PART 233 D, DATED AUGUST 27, 2024.

ND : NOT DETECTED.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD BY REPORTING ACCORDING TO UAE.WI.046.

(MISS WILAILAK SRISUK)  
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** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : OCTOBER 7, 2025  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : OCTOBER 8, 2025  
**ANALYTICAL DATE** : OCTOBER 8-16, 2025  
**ISSUE DATE** : OCTOBER 17, 2025  
**REPORT NO.** : 2025-U094635  
**WORK NO.** : 2024-012034  
**ANALYSIS NO.** : T25AW791-0001 - T25AW791-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:10 HOUR 1/ T25AW791-0001	2 09:20 HOUR 1/ T25AW791-0002			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.2 (25°C)	6.9 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	200	< 2.0	≤ 20	-	2.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	71.3	19.2	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	-	239	≤ 1,000	-	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	-	< 0.1	-	0.1	-
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	-	< 0.50	≤ 1.0	-	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	-	8.1	≤ 35	1.5	5.0
OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	-	< 3	≤ 20	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:10 HOUR 1/ T25AW791-0001	2 09:20 HOUR 1/ T25AW791-0002			
MICROBIOLOGY							
TOTAL COLIFORMS <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	-	< 1.8	-	1.8	-
SAMPLE CONDITION							
WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN	YELLOW/CLEAR YELLOW			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 24<sup>th</sup> EDITION, 2023.

RESULT 1 : INFLUENT OF WASTEWATER TREATMENT PLANT

RESULT 2 : EFFLUENT OF WASTEWATER TREATMENT PLANT

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 141, PART 233 D, DATED AUGUST 27, 2024.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD BY REPORTING ACCORDING TO UAE.WI.046.

[REDACTED]

(MISS WILAILAK SRISUK)  
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** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : NOVEMBER 11, 2025  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : NOVEMBER 13, 2025  
**ANALYTICAL DATE** : NOVEMBER 13-20, 2025  
**ISSUE DATE** : NOVEMBER 21, 2025  
**REPORT NO.** : 2025-U106339  
**WORK NO.** : 2024-012034  
**ANALYSIS NO.** : T25AZ647-0001 - T25AZ647-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 08:40 HOUR 1/ T25AZ647-0001	2 08:50 HOUR 1/ T25AZ647-0002			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	6.9 (25°C)	7.0 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	72.3	17.7	≤ 20	-	2.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	66.6	14.8	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	-	216	≤ 1,000	-	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	-	< 0.1	-	0.1	-
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	-	< 0.50	≤ 1.0	-	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	-	19.1	≤ 35	1.5	5.0
OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	-	< 3	≤ 20	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 08:40 HOUR 1/ T25AZ647-0001	2 08:50 HOUR 1/ T25AZ647-0002			
MICROBIOLOGY							
TOTAL COLIFORMS <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B AND C)	-	110	-	1.8	-
SAMPLE CONDITION							
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 24<sup>th</sup> EDITION, 2023.

RESULT 1 : INFLUENT OF WASTEWATER TREATMENT PLANT

RESULT 2 : EFFLUENT OF WASTEWATER TREATMENT PLANT

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 141, PART 233 D, DATED AUGUST 27, 2024.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD BY REPORTING ACCORDING TO UAE.WI.046.

[Redacted Signature]

(MISS WILAILAK SRISUK)  
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** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : DECEMBER 9, 2025  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : DECEMBER 11, 2025  
**ANALYTICAL DATE** : DECEMBER 11-18, 2025  
**ISSUE DATE** : DECEMBER 19, 2025  
**REPORT NO.** : 2025-U114799  
**WORK NO.** : 2024-012034  
**ANALYSIS NO.** : T25BB959-0001 - T25BB959-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:30 HOUR 1/ T25BB959-0001	2 09:40 HOUR 1/ T25BB959-0002			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.1 (25°C)	7.1 (25°C)	5.5-9.0	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	255	< 2.0	≤ 20	-	2.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	641	13.3	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	-	215	≤ 1,000	-	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	-	< 0.1	-	0.1	-
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	-	< 0.50	≤ 1.0	-	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	-	14.9	≤ 35	1.5	5.0
OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	-	< 3	≤ 20	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 09:30 HOUR 1/ T25BB959-0001	2 09:40 HOUR 1/ T25BB959-0002			
MICROBIOLOGY							
TOTAL COLIFORMS <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B AND C)	-	23	-	1.8	-
SAMPLE CONDITION							
WATER'S COLOUR/TURBID			BROWN/TURBID	YELLOW/CLEAR			
SEDIMENT			BROWN	BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 24<sup>th</sup> EDITION, 2023.

RESULT 1 : INFLUENT OF WASTEWATER TREATMENT PLANT

RESULT 2 : EFFLUENT OF WASTEWATER TREATMENT PLANT

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 141, PART 233 D, DATED AUGUST 27, 2024.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD BY REPORTING ACCORDING TO UAE.WI.046.

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR