

## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 24/12/2024

Report Date : 25/12/2024

Report No. : R30776/67

Parameters	Unit	Method	TW28042 /67	TW28043 /67	TW28044 /67	Standard <sup>a</sup>
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
pH (25°C) <sup>#</sup>	-	Based on SM 2023 (4500-H <sup>+</sup> B)	6.8	7.1	7.3	6.5-8.5
Turbidity <sup>#</sup>	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	< 0.50	5
Conductivity <sup>#</sup>	uS/cm	SM 2023 (2510 B)	394	396	387	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	236	238	232	1000
Total Hardness <sup>@</sup>	mg/L as CaCO <sub>3</sub>	SM 2023 (2340 C)	108	100	108	300
Chloride <sup>@</sup>	mg/L as Cl <sup>-</sup>	SM 2023 (4500-Cl <sup>-</sup> B)	41	42	40	250
Total Iron <sup>#</sup>	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.12	0.3
Manganese <sup>#</sup>	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	< 0.04	0.1
Nitrate <sup>#</sup>	mg/L as NO <sub>3</sub> <sup>-</sup>	SM 2023 (4500-NO <sub>3</sub> <sup>-</sup> E)	11.89	12.86	10.74	50
Sulfate <sup>#</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Based on SM 2023 (4500-SO <sub>4</sub> <sup>2-</sup> E)	50.04	51.31	50.04	250
Sample Condition		Observation	Clear	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023
2. Test marked "# " on this report are Accredited International Standard ISO/IEC 17025 by BLA-DSS.
3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMS.
4. Test marked " \* " on this report are not included in scope of Accreditation
5. a : Specification for Water Supply Quality of Metropolitan Waterworks Authority.

Analyst

25/12/2024

Technical Manager

25/12/2024

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya
Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand
Sampling Site : Centara Grand (Pattaya)
Sampling by : Test Tech Co., Ltd.
Sampling Date : 12/12/2024
Received Date : 12/12/2024
Report Date : 25/12/2024

Sample Type : Usage Water
Sampling Method : Grab
Sampling Time : 10:30 AM
Analytical Date : 12 - 24/12/2024
Report No. : R30777/67

Parameters	Unit	Method	TW28042 /67	TW28043 /67	TW28044 /67	Standard <sup>a</sup>
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found	not found
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023

2. a : Specification for Water Supply Quality of Metropolitan Waterworks Authority.

Analyst

25/12/2024

บริษัท เทสท์ เทค จำกัด

Technical Manager

25/12/2024



ISO/IEC 17025  
Accreditation No. 1201/54TESTING  
NO.0001

## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 24/12/2024

Report Date : 25/12/2024

Report No. : R30778/67

Parameters	Unit	Method	TW28045 /67	TW28046 /67	Standard <sup>a</sup>
			Guest Room Cold Water (North 709)	Guest Room Cold Water (North 711)	
pH (25°C) <sup>#</sup>	-	Based on SM 2023 (4500-H <sup>+</sup> B)	7.2	7.3	6.5-8.5
Turbidity <sup>#</sup>	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	5
Conductivity <sup>#</sup>	uS/cm	SM 2023 (2510 B)	393	394	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	236	236	1000
Total Hardness <sup>@</sup>	mg/L as CaCO <sub>3</sub>	SM 2023 (2340 C)	110	103	300
Chloride <sup>@</sup>	mg/L as Cl <sup>-</sup>	SM 2023 (4500-Cl <sup>-</sup> B)	41	40	250
Total Iron <sup>#</sup>	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.3
Manganese <sup>#</sup>	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate <sup>#</sup>	mg/L as NO <sub>3</sub> <sup>-</sup>	SM 2023 (4500-NO <sub>3</sub> <sup>-</sup> E)	11.12	11.70	50
Sulfate <sup>#</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Based on SM 2023 (4500-SO <sub>4</sub> <sup>2-</sup> E)	49.02	51.31	250
Sample Condition		Observation	Clear	Clear	

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Analyst

25/12/2024

Technical Manager

25/12/2024

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya
Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand
Sampling Site : Centara Grand (Pattaya)
Sampling by : Test Tech Co., Ltd.
Sampling Date : 12/12/2024
Received Date : 12/12/2024
Report Date : 25/12/2024

Sample Type : Usage Water
Sampling Method : Grab
Sampling Time : 10:30 AM
Analytical Date : 12 - 24/12/2024
Report No. : R30779/67

Parameters	Unit	Method	TW28045 /67	TW28046 /67	Standard <sup>a</sup>
			Guest Room Cold Water (North 709)	Guest Room Cold Water (North 711)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark :
1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023
2. a : Specification for Water Supply Quality of Metropolitan Waterworks Authority.

[Redacted Signature]

Analyst

25/12/2024

[Redacted Signature]

TEST TECH CO., LTD.  
Technical Manager

25/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 24/12/2024

Report Date : 25/12/2024

Report No. : R30780/67

Parameters	Unit	Method	TW28047 /67	TW28048 /67	Standard <sup>a</sup>
			Guest Room Hot Water (North 709)	Guest Room Hot Water (North 711)	
pH (25°C) <sup>#</sup>	-	Based on SM 2023 (4500-H <sup>+</sup> B)	7.1	7.0	6.5-8.5
Turbidity <sup>#</sup>	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	5
Conductivity <sup>#</sup>	uS/cm	SM 2023 (2510 B)	387	386	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	232	232	1000
Total Hardness <sup>@</sup>	mg/L as CaCO <sub>3</sub>	SM 2023 (2340 C)	104	108	300
Chloride <sup>@</sup>	mg/L as Cl <sup>-</sup>	SM 2023 (4500-Cl <sup>-</sup> B)	38	38	250
Total Iron <sup>#</sup>	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.3
Manganese <sup>#</sup>	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate <sup>#</sup>	mg/L as NO <sub>3</sub> <sup>-</sup>	SM 2023 (4500-NO <sub>3</sub> <sup>-</sup> E)	11.12	12.40	50
Sulfate <sup>#</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Based on SM 2023 (4500-SO <sub>4</sub> <sup>2-</sup> E)	50.93	51.31	250
Sample Condition		Observation	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023
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Analyst

25/12/2024

Technical Manager

25/12/2024

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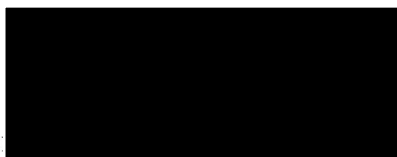


## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya  
Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand  
Sampling Site : Centara Grand (Pattaya) Sample Type : Usage Water  
Sampling by : Test Tech Co., Ltd. Sampling Method : Grab  
Sampling Date : 12/12/2024 Sampling Time : 10:30 AM  
Received Date : 12/12/2024 Analytical Date : 12 - 24/12/2024  
Report Date : 25/12/2024 Report No. : R30781/67

Parameters	Unit	Method	TW28047 /67	TW28048 /67	Standard <sup>a</sup>
			Guest Room Hot Water (North 709)	Guest Room Hot Water (North 711)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023  
2. a : Specification for Water Supply Quality of Metropolitan Waterworks Authority.



Analyst

25/12/2024



TEST TECH CO., LTD.  
Technical Manager

25/12/2024

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Customer Name : Centara Grand Mirage Beach Resort Pattaya

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Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 24/12/2024

Report Date : 25/12/2024

Report No. : R30782/67

Parameters	Unit	Method	TW28049 /67	<sup>a</sup> Standard
			Cooling Water	( Cooling Water )
pH (25°C)	-	Based on SM 2023 (4500-H <sup>+</sup> B)	8.8	8.5 - 9.5
* Conductivity	uS/cm	SM 2023 (2510 B)	11670	< 2500
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	7002	< 2000
* P-Alkalinity	mg/L as CaCO <sub>3</sub>	Titration	40	-
* M-Alkalinity	mg/L as CaCO <sub>3</sub>	Titration	285	-
* Total Hardness	mg/L as CaCO <sub>3</sub>	SM 2023 (2340 C)	2280	< 100
* Chloride	mg/L as Cl <sup>-</sup>	SM 2023 (4500-Cl <sup>-</sup> B)	2079	< 400
Total Iron	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 1.0
Manganese	mg/L	SM 2023 (3500-Mn B)	0.05	-
* Sulfate	mg/L as SO <sub>4</sub> <sup>2-</sup>	Based on SM 2023 (4500-SO <sub>4</sub> <sup>2-</sup> E)	2042	-
* Silica	mg/L as SiO <sub>2</sub>	SM 2023 (4500-SiO <sub>2</sub> C)	141	-
* Total Phosphorus	mg/L as P	Stannous Chloride	0.20	-
Sample Condition		Observation	Light Yellow, Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023

2. Test marked " \* " on this report are not included in scope of Accreditation

3. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ



Analyst

25/12/2024



Technical Manager

25/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : 12/12/2024

Received Date : 12/12/2024

Report Date : 25/12/2024

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 10:30 AM

Analytical Date : 12 - 24/12/2024

Report No. : R30783/67

Parameters	Unit	Method	TW28049 /67
			Cooling Water
Legionella spp.	/L	ISO 11731 : 2017	not detected
Sample Condition		Observation	Light Yellow, Clear

Analyst

25/12/2024

Technical Manager

25/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 24/12/2024

Report Date : 25/12/2024

Report No. : R30784/67

Parameters	Unit	Method	TW28050 /67	Standard <sup>a</sup> ( Chilled Water )
			Chilled Water	
* pH (25°C)	-	Based on SM 2023 (4500-H <sup>+</sup> B)	10.0	7.5 - 9.5
Conductivity <sup>#</sup>	uS/cm	SM 2023 (2510 B)	947	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	568	-
* P-Alkalinity	mg/L as CaCO <sub>3</sub>	Titration	48	-
* M-Alkalinity	mg/L as CaCO <sub>3</sub>	Titration	125	-
Total Hardness <sup>@</sup>	mg/L as CaCO <sub>3</sub>	SM 2023 (2340 C)	65	-
Chloride <sup>@</sup>	mg/L as Cl <sup>-</sup>	SM 2023 (4500-Cl <sup>-</sup> B)	57	-
* Total Iron	mg/L as Fe	SM 2023 (3500-Fe B)	2.19	< 1.0
Manganese <sup>#</sup>	mg/L	SM 2023 (3500-Mn B)	0.05	-
Sulfate <sup>#</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Based on SM 2023 (4500-SO <sub>4</sub> <sup>2-</sup> E)	56.39	-
Silica <sup>#</sup>	mg/L as SiO <sub>2</sub>	SM 2023 (4500-SiO <sub>2</sub> C)	4.31	-
* Nitrite	mg/L as NO <sub>2</sub> <sup>-</sup>	SM 2023 (4500-NO <sub>2</sub> <sup>-</sup> B)	152	500 - 1000
Sample Condition		Observation	Light Yellow, a little bit Particles	

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 5. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ (Chilled Water)

Analyst

25/12/2024

Technical Manager

25/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : 12/12/2024

Received Date : 12/12/2024

Report Date : 20/12/2024

Sample Type : Drinking Water

Sampling Method : Grab

Sampling Time : 10:30 AM

Analytical Date : 12 - 18/12/2024

Report No. : R30374/67

Parameters	Unit	Method	TW28051 /67	TW28052 /67	TW28053 /67	Standard <sup>a</sup>
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 709)	
pH (25°C) <sup>#</sup>	-	Based on SM 2023 (4500-H <sup>+</sup> B)	7.1	7.1	7.2	6.5-8.5
Turbidity <sup>#</sup>	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	< 0.50	≤ 5.0
Conductivity <sup>#</sup>	uS/cm	SM 2023 (2510 B)	386	387	387	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	232	232	232	-
Total Hardness <sup>@</sup>	mg/L as CaCO <sub>3</sub>	SM 2023 (2340 C)	96	100	98	≤ 100.0
Chloride <sup>@</sup>	mg/L as Cl <sup>-</sup>	SM 2023 (4500-Cl <sup>-</sup> B)	40	40	38	≤ 250.0
Total Iron <sup>#</sup>	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	< 0.10	≤ 0.3
Manganese <sup>#</sup>	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	< 0.04	≤ 0.05
Nitrate Nitrogen <sup>#</sup>	mg/L as NO <sub>3</sub> <sup>-</sup> N	SM 2023 (4500-NO <sub>3</sub> <sup>-</sup> E)	2.70	2.68	2.46	≤ 4.0
Sulfate <sup>#</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Based on SM 2023 (4500-SO <sub>4</sub> <sup>2-</sup> E)	49.78	47.50	52.32	≤ 250.0
Sample Condition		Observation	Clear	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023
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3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMSO.
4. Test marked " \* " on this report are not included in scope of Accreditation
5. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)  
( Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))



Analyst

20/12/2024



Technical Manager

20/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Drinking Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

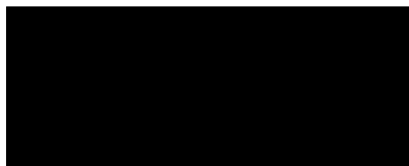
Analytical Date : 12 - 18/12/2024

Report Date : 20/12/2024

Report No. : R30375/67

Parameters	Unit	Method	TW28051 /67	TW28052 /67	TW28053 /67	Standard <sup>a</sup>
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 709)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1	< 2.2
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found	negative
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023  
2. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)  
( Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))



Analyst

20/12/2024



Technical Manager

20/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Ice

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 16/12/2024

Report Date : 17/12/2024

Report No. : R30026/67

Parameters	Unit	Method	TW28054 /67	TW28055 /67	Standard <sup>a</sup>
			Canteen (Cube)	Banquet (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 2.2
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023

2. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)  
( Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))

Analyst

17/12/2024

Technical Manager

17/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Ice

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 16/12/2024

Report Date : 17/12/2024

Report No. : R30027/67

Parameters	Unit	Method	TW28056 /67	TW28057 /67	Standard <sup>a</sup>
			Flames	Oasis Kitchen (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 2.2
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 20232. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)  
( Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))

Analyst

17/12/2024

บริษัท เทสท์ เทค จำกัด

Technical Manager

17/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Swimming Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 16/12/2024

Report Date : 17/12/2024

Report No. : R30028/67

Parameters	Unit	Method	TW28058 /67	TW28059 /67	Standard <sup>a</sup>
			Main Pool	Lab Pool	
pH (25°C)	-	Based on SM 2023 (4500-H <sup>+</sup> B)	7.6	7.5	7.2-8.4
Residual Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric	0.97	0.97	0.6-1.0
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 20232. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14,  
B.E.2530 (1987)

Analyst

17/12/2024

บริษัท เทสท์ เทค จำกัด

Technical Manager

17/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : 12/12/2024

Received Date : 12/12/2024

Report Date : 17/12/2024

Sample Type : Swimming Water

Sampling Method : Grab

Sampling Time : 10:30 AM

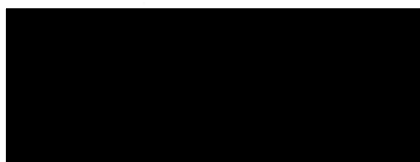
Analytical Date : 12 - 16/12/2024

Report No. : R30029/67

Parameters	Unit	Method	TW28058 /67	TW28059 /67	Standard <sup>a</sup>
			Main Pool	Lab Pool	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.8	< 1.8	< 10
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104, Part 205, dated October 14, B.E.2530 (1987)



Analyst

17/12/2024



Technical Manager

17/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Swimming Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 12/12/2024

Sampling Time : 10:30 AM

Received Date : 12/12/2024

Analytical Date : 12 - 16/12/2024

Report Date : 17/12/2024

Report No. : R30030/67

Parameters	Unit	Method	TW28060 /67	TW28061 /67	Standard <sup>a</sup>
			Lazy Pool	18 <sup>th</sup> Flr Pool	
pH (25°C)	-	Based on SM 2023 (4500-H <sup>+</sup> B)	7.4	7.7	7.2-8.4
Residual Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric	0.89	0.91	0.6-1.0
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104, Part 205, dated October 14, B.E.2530 (1987)

Analyst

17/12/2024

Technical Manager

17/12/2024

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ISO/IEC 17025  
 Accreditation No. 1201/54

## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : 12/12/2024

Received Date : 12/12/2024

Report Date : 17/12/2024

Sample Type : Swimming Water

Sampling Method : Grab

Sampling Time : 10:30 AM

Analytical Date : 12 - 16/12/2024

Report No. : R30031/67

Parameters	Unit	Method	TW28060 /67	TW28061 /67	Standard <sup>a</sup>
			Lazy Pool	18 <sup>th</sup> Flr Pool	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.8	< 1.8	< 10
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023  
 2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)



Analyst

17/12/2024



Technical Manager

17/12/2024

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## Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : 12/12/2024

Received Date : 12/12/2024

Report Date : 20/12/2024

Sample Type : Waste Water

Sampling Method : Grab

Sampling Time : 10:30 AM

Analytical Date : 12 - 19/12/2024

Report No. : R30376/67

Parameters	Unit	Method	TW28062 /67	Standard <sup>a</sup>
			Effluent	
pH	-	SM 2023 (4500-H <sup>+</sup> B)	7.3	-
BOD	mg/L	SM 2023 (5210 B, 4500-O G)	19	≤ 1000
Total Suspended Solids	mg/L	SM 2023 (2540 D)	35	-
Oil & Grease	mg/L	SM 2023 (5520 D)	< 3.0	-
Sample Condition		Observation	Light Yellow, Cloud, Black Particles	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023

2. a : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 22 (พ.ศ. 2544) เรื่อง กำหนดอัตราค่าบริการบำบัดน้ำเสียของระบบบำบัดน้ำเสียรวมเมืองพัทยา

Analyst

20/12/2024

Technical Manager

20/12/2024

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