



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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25535/67

Parameters	Unit	Method	TW23365 /67	TW23366 /67	TW23367 /67	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.7	7.2	7.6	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	1.76	0.66	5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	683	682	676	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	410	409	406	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	164	158	164	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	72	74	72	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.12	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.08	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	25.49	24.62	24.51	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	74.68	74.68	75.44	250
Sample Condition		Observation	Clear	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th 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-DMSQ.
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

22/10/2024

Technical Manager

22/10/2024

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Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

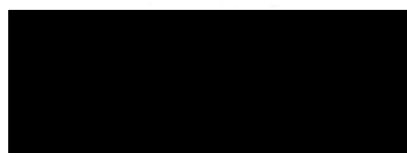
Report Date : 22/10/2024

Report No. : R25536/67

Parameters	Unit	Method	TW23365 /67	TW23366 /67	TW23367 /67	Standard ^a
			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, 24th ed., 2023

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



Analyst

22/10/2024



Technical Manager

22/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25537/67

Parameters	Unit	Method	TW23368 /67	TW23369 /67	Standard ^a
			Guest Room Cold Water (North 311)	Guest Room Cold Water (North 313)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.1	7.2	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	0.54	5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	683	682	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	410	409	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	156	164	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	76	74	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	24.40	26.26	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	71.63	69.34	250
Sample Condition		Observation	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

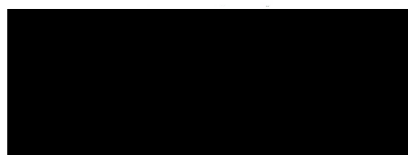
Report Date : 22/10/2024

Report No. : R25538/67

Parameters	Unit	Method	TW23368 /67	TW23369 /67	Standard ^a
			Guest Room Cold Water (North 311)	Guest Room Cold Water (North 313)	
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, 24th ed., 2023

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



Analyst

22/10/2024



Technical Manager

22/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25539/67

Parameters	Unit	Method	TW23370 /67	TW23371 /67	Standard ^a
			Guest Room Hot Water (North 311)	Guest Room Hot Water (North 313)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.4	7.3	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	0.68	0.70	5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	676	675	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	406	405	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	148	152	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	72	68	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	0.15	0.12	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	0.08	0.11	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	24.18	25.49	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	79.50	76.45	250
Sample Condition		Observation	Clear	Clear	

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

22/10/2024

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22/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25540/67

Parameters	Unit	Method	TW23370 /67	TW23371 /67	Standard ^a
			Guest Room Hot Water (North 311)	Guest Room Hot Water (North 313)	
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, 24th ed., 2023

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

Analyst

22/10/2024

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22/10/2024

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TESTING
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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25541/67

Parameters	Unit	Method	TW23372 /67	Standard ^a
			Cooling Water	(Cooling Water)
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	8.5	8.5 - 9.5
* Conductivity	uS/cm	SM 2023 (2510 B)	10000	< 2500
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	6000	< 2000
* P-Alkalinity	mg/L as CaCO ₃	Titration	15	-
* M-Alkalinity	mg/L as CaCO ₃	Titration	200	-
* Total Hardness	mg/L as CaCO ₃	SM 2023 (2340 C)	2000	< 100
* Chloride	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	1799	< 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 ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	2103	-
* Silica	mg/L as SiO ₂	SM 2023 (4500-SiO ₂ C)	131	-
* Total Phosphorus	mg/L as P	Stannous Chloride	0.10	-
Sample Condition		Observation	Clear	

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

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

3. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ



Analyst

22/10/2024



Technical Manager

22/10/2024

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Analysis/Test Report

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25542/67

Parameters	Unit	Method	TW23372 /67
			Cooling Water
Legionella spp.	/L	ISO 11731 : 2017	not detected
Sample Condition		Observation	Clear



Analyst

22/10/2024



Technical Manager

22/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 21/10/2024

Report Date : 22/10/2024

Report No. : R25543/67

Parameters	Unit	Method	TW23373 /67	Standard ^a (Chilled Water)
			Chilled Water	
* pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	9.7	7.5 - 9.5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	909	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	545	-
* P-Alkalinity	mg/L as CaCO ₃	Titration	30	-
* M-Alkalinity	mg/L as CaCO ₃	Titration	110	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	55	-
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	62	-
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	1.22	< 1.0
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	54.36	-
Silica [#]	mg/L as SiO ₂	SM 2023 (4500-SiO ₂ C)	5.18	-
* Nitrite	mg/L as NO ₂ ⁻	SM 2023 (4500-NO ₂ ⁻ B)	135	500 - 1000
Sample Condition		Observation	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMSc.
4. Test marked " * " on this report are not included in scope of Accreditation
5. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ (Chilled Water)

Analyst

22/10/2024

Technical Manager

22/10/2024

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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 : Drinking Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 17/10/2024

Report Date : 18/10/2024

Report No. : R25274/67

Parameters	Unit	Method	TW23374 /67	TW23375 /67	TW23376 /67	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 311)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.1	7.1	7.1	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	1.13	1.17	< 0.50	≤ 5.0
Conductivity [#]	uS/cm	SM 2023 (2510 B)	681	682	680	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	409	409	408	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	166	160	164	≤ 100.0
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	72	76	74	≤ 250.0
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	0.16	0.15	0.16	≤ 0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	0.10	0.10	0.09	≤ 0.05
Nitrate Nitrogen [#]	mg/L as NO ₃ ⁻ -N	SM 2023 (4500-NO ₃ ⁻ E)	5.54	5.73	5.76	≤ 4.0
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	70.87	68.71	74.42	≤ 250.0
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th 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-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

18/10/2024



Technical Manager

18/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 17/10/2024

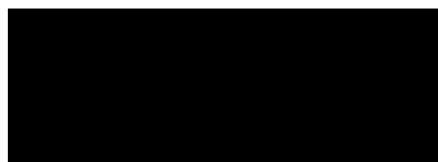
Report Date : 18/10/2024

Report No. : R25275/67

Parameters	Unit	Method	TW23374 /67	TW23375 /67	TW23376 /67	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 311)	
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, 24th 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

18/10/2024



Technical Manager

18/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 15/10/2024

Report Date : 17/10/2024

Report No. : R25061/67

Parameters	Unit	Method	TW23377 /67	TW23378 /67	Standard ^a
			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, 24th 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

17/10/2024

TEST TECH CO., LTD.
Technical Manager

17/10/2024

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Analysis/Test Report

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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 : 10/10/2024

Sampling Time : 10:00 AM

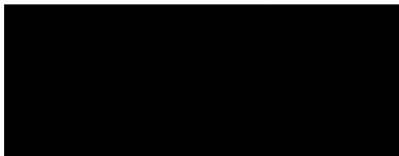
Received Date : 10/10/2024

Analytical Date : 10 - 15/10/2024

Report Date : 17/10/2024

Report No. : R25062/67

Parameters	Unit	Method	TW23379 /67	TW23380 /67	Standard ^a
			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, 24th 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

17/10/2024

TEST TECH CO., LTD.
Technical Manager

17/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 15/10/2024

Report Date : 17/10/2024

Report No. : R25063/67

Parameters	Unit	Method	TW23381 /67	TW23382 /67	Standard ^a
			Main Pool	Lab Pool	
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	7.6	7.4	7.2-8.4
Residual Chlorine	mg/L as Cl ₂	DPD Colorimetric	0.87	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, 24th 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

17/10/2024

TEST TECH CO., LTD.
Technical Manager

17/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 15/10/2024

Report Date : 17/10/2024

Report No. : R25064/67

Parameters	Unit	Method	TW23381 /67	TW23382 /67	Standard ^a
			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, 24th ed., 20232. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14,
B.E.2530 (1987)

Analyst

17/10/2024



Technical Manager

17/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 15/10/2024

Report Date : 17/10/2024

Report No. : R25065/67

Parameters	Unit	Method	TW23383 /67	TW23384 /67	Standard ^a
			Lazy Pool	18 th Flr Pool	
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	7.7	7.6	7.2-8.4
Residual Chlorine	mg/L as Cl ₂	DPD Colorimetric	0.97	0.89	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, 24th 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

17/10/2024

บริษัท เทสท์ เทค จำกัด

Technical Manager

17/10/2024

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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 : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 15/10/2024

Report Date : 17/10/2024

Report No. : R25066/67

Parameters	Unit	Method	TW23383 /67	TW23384 /67	Standard ^a
			Lazy Pool	18 th 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, 24th ed., 20232. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205, dated October 14,
B.E.2530 (1987)

Analyst

17/10/2024



Technical Manager

17/10/2024

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TESTING
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 : Waste Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 10/10/2024

Sampling Time : 10:00 AM

Received Date : 10/10/2024

Analytical Date : 10 - 17/10/2024

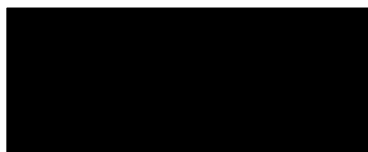
Report Date : 18/10/2024

Report No. : R25276/67

Parameters	Unit	Method	TW23385 /67	Standard ^a
			Effluent	
pH	-	SM 2023 (4500-H ⁺ B)	7.3	-
BOD	mg/L	SM 2023 (5210 B, 4500-O G)	12	≤ 1000
Total Suspended Solids	mg/L	SM 2023 (2540 D)	23	-
Oil & Grease	mg/L	SM 2023 (5520 D)	4.6	-
Sample Condition		Observation	Light Yellow, Particles	

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

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



Analyst

18/10/2024



Technical Manager

18/10/2024

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