

ผลการวิเคราะห์น้ำในสระว่ายนํ้า



Analysis / Test Report

TESTING
No.0009

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

P/O :

Project Name :

Project Location :

Lot ID: 2487341

Date Received : Jul 31, 2024

Date Reported : Aug 10, 2024

Report Number : 3068897-1

Page 1 of 1

Sample Number	2487341-1
Sampled Date	Jul 31, 2024 8:50 AM
Sample Description	Pool water
Date Analysis Commenced	Jul 31, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing						
pH at 25 degree C *		-	-	7.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	1.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	683	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	103	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok

Sampling By : Panupong Homewong

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Sithichok T.

Sithichok Thongnguen
Scientist (3)



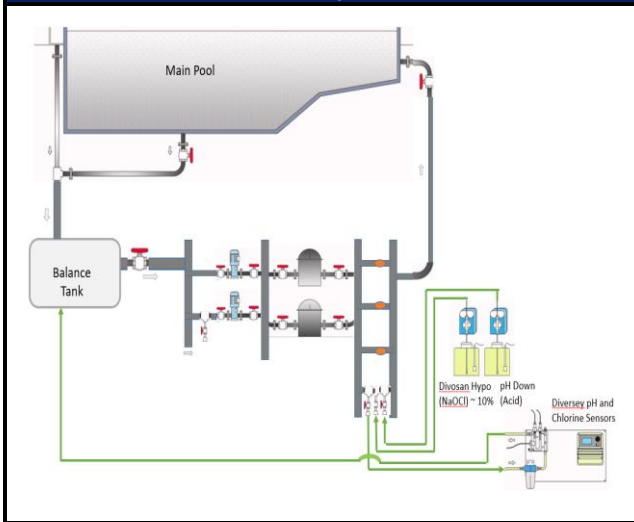
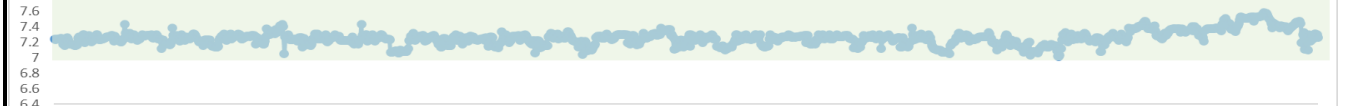
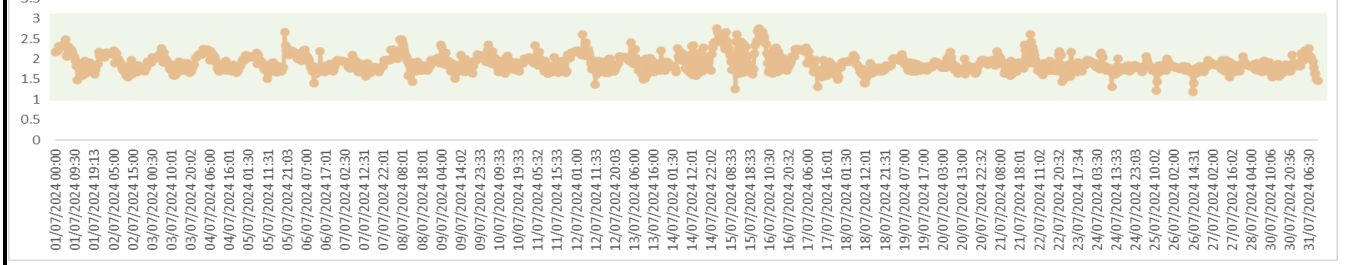
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	Diversey Hygiene (Thailand) Co., Ltd. 33/4 The Nine Tower Grand Rama 9 27th Floor, Building B, Rama 9 Road Huai Khwang Subdistrict Huai Khwang District Bangkok 10310		Hyatt Regency Bangkok Sukhumvit 1 Soi Sukhumvit 13, Khlong Toei Nuea, Watthana, Bangkok, 10110, Thailand
MONTHLY SERVICE REPORT			
Reported by DIVERSEY CC Latest Data	Albertus G / Kittigunya Vikas M / Piyada / Phatchuka V Wednesday, July 31, 2024	Report to Hyatt Regency CC Report Date	K. Suwit Polrachom Thursday, 29 August 2024
Main Pool Water Parameters			
Pool Schematic + Diversey Treatment Schematic	Pool Water Quality Date 31 Jul 2024		
	Parameter	Control Limit	Result
	pH	6.8 - 7.8	7.24
	Free Chlorine	1 - 3 ppm	1.83
	TDS		683 ppm
	Hardness		103 ppm as CaCO ₃
	Escherichia Coli	< 1.1 MPN/100ml	< 1.1 *31 July 2024
	Total Coliform	< 1.1 MPN/100ml	< 1.1 *31 July 2024
Legionella spp.	< 1 CFU / L	< 1 *28 June 2024	
ON CONTROL			
Pool Water Trending			
<div> <div>Hyatt Regency Sukumvit Pool Quality July 2024 - pH</div>  </div>			
<div> <div>Hyatt Regency Sukumvit Pool Quality July 2024- Chlorine</div>  </div>			
Comment & Recommendation			
1. Overall all parameter are in good control, Diversey system running properly to maintain both pH and Free chlorine to meet target control to meet standard safety 2. Water sampling was collected on 31 July 2024 for bacteria testing. All testing shows "<" lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting), means excellent result of protection againts bacteria.			



Analysis / Test Report

TESTING
No.0009

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

Lot ID: 2492346

Date Received : Aug 31, 2024

Date Reported : Sep 11, 2024

Report Number : 3097529-1

P/O :
Project Name :
Project Location :

Page 1 of 1

Sample Number	2492346-1
Sampled Date	Aug 31, 2024 10:45 AM
Sample Description	Pool water
Date Analysis Commenced	Aug 31, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing						
pH at 25 degree C *		-	-	7.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	2.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	886	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	91	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok

Sampling By : Anuwat Phutawin



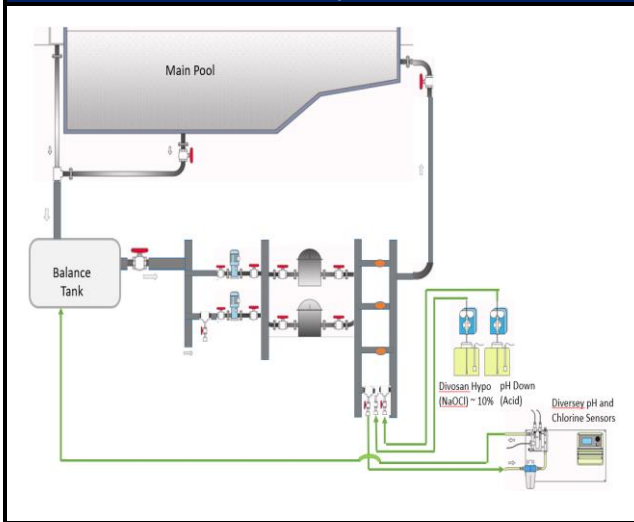
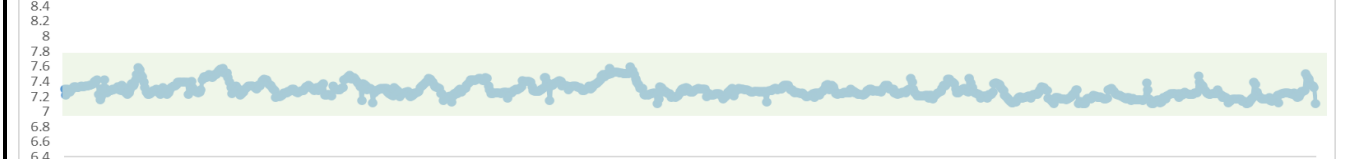
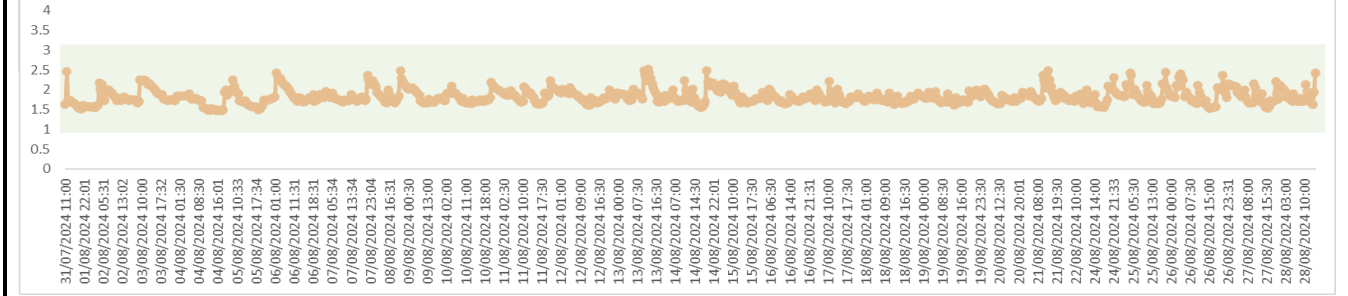
Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Suwannee Chuamkeaw
Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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MONTHLY SERVICE REPORT			
Reported by DIVERSEY CC Latest Data	Albertus G / Kittigunya Vikas M / Piyada / Phatchuka V Saturday, August 31, 2024	Report to Hyatt Regency CC Report Date	K. Suwit Polrachom Thursday, 26 September 2024
Main Pool Water Parameters			
Pool Schematic + Diversey Treatment Schematic	Pool Water Quality Date 31 Aug 2024		
	Parameter	Control Limit	Result
	pH	6.8 - 7.8	7.03
	Free Chlorine	1 - 3 ppm	2.01
	TDS		886 ppm
	Hardness		91 ppm as CaCO ₃
	Escherichia Coli	< 1.1 MPN/100ml	< 1.1 *31 Aug 2024
	Total Coliform	< 1.1 MPN/100ml	< 1.1 *31 Aug 2024
	Legionella spp.	< 1 CFU / L	< 1 *28 June 2024
ON CONTROL			
Pool Water Trending			
<div> <div> Hyatt Regency Sukumvit Pool Quality Aug 2024 - pH  </div> <div> Hyatt Regency Sukumvit Pool Quality Aug 2024- Chlorine  </div> </div>			
Comment & Recommendation			
1. Overall all parameter are in good control, Diversey system running properly to maintain both pH and Free chlorine to meet target control to meet standard safety 2. Water sampling was collected on 31 August 2024 for bacteria testing. All testing shows "<" lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting), means excellent result of protection againts bacteria.			



Analysis / Test Report

TESTING
No.0009

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

P/O :

Project Name :

Project Location :

Lot ID: 24109196

Date Received : Oct 01, 2024

Date Reported : Oct 18, 2024

Report Number : 3125624-1

Page 1 of 2

Sample Number	24109196-1
Sampled Date	Oct 01, 2024 10:40 AM
Sample Description	Pool water
Date Analysis Commenced	Oct 02, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F	Bangkok
<i>Legionella spp.</i> *	CFU/L	-	-	<1	ISO 11731 (2017)	Bangkok
<i>Pseudomonas aeruginosa</i>	CFU/100mL	-	-	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9213 E	Bangkok
<i>Staphylococcus aureus</i>	CFU/100mL	-	-	<1	In-house method : STM No. 01-054 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9213 B and FDA Bacteriological Analytical Manual online, Chapter 12, 2016	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing						
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F)	Bangkok
Nitrate as N	mg/L	0.06	0.2	15.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
pH at 25 degree C		-	-	7.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Residual Free Chlorine	mg/L	-	0.1	6.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1096	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	76	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING
No.0009

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

P/O :
Project Name :
Project Location :

Lot ID: 24109196

Date Received : Oct 01, 2024

Date Reported : Oct 18, 2024

Report Number : 3125624-1

Page 2 of 2

Note : Microbiological Testing Result <1 mean Bacteria not found in agar plate.

Sampling By : Pichai Boonyong

Remark :

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Approved by

Siriluk P.

Siriluk Bunnak
Section Head



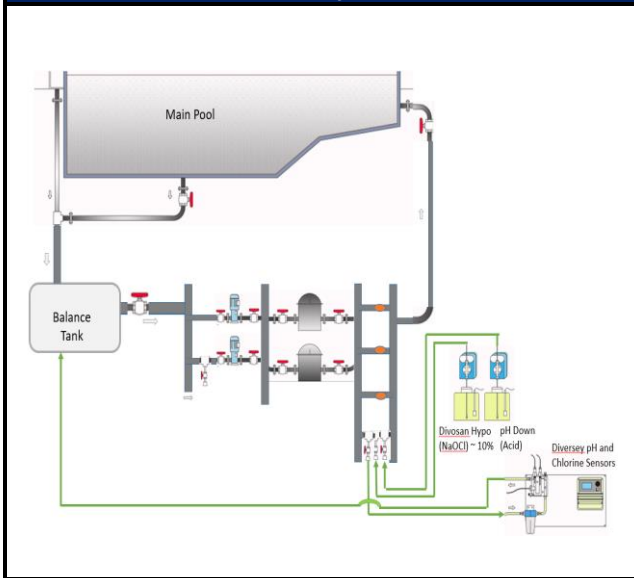
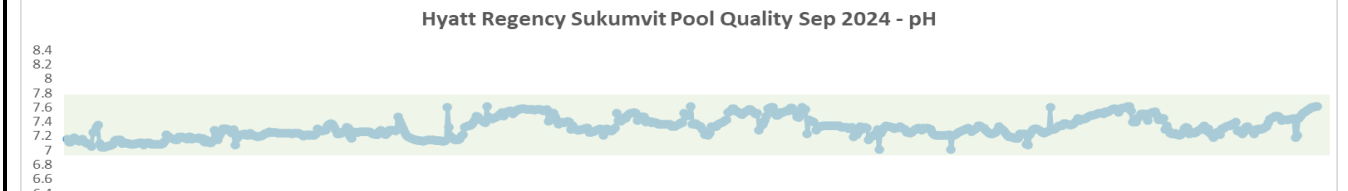
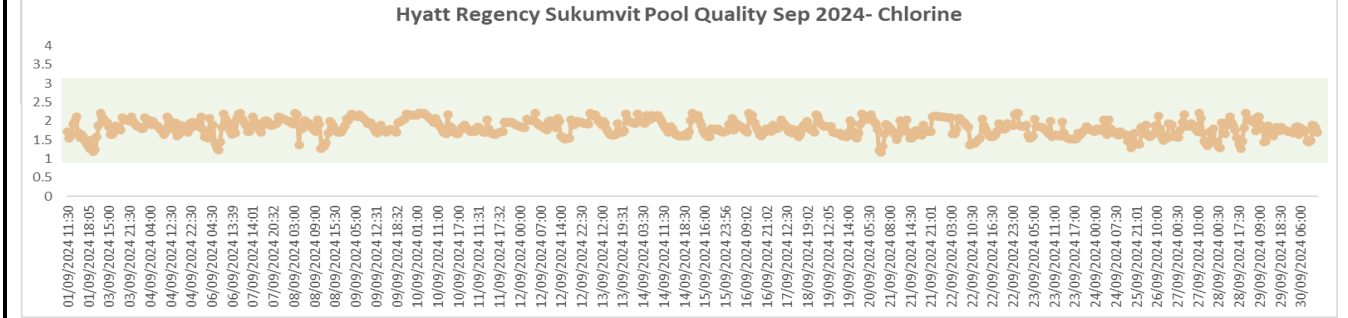
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MONTHLY SERVICE REPORT			
Reported by DIVERSEY CC Latest Data	Albertus G / Kittigunya Vikas M / Piyada / Phatchuka V Monday, September 30, 2024	Report to Hyatt Regency CC Report Date	K. Suwit Polrachom Thursday, 16 October 2024
Main Pool Water Parameters			
Pool Schematic + Diversey Treatment Schematic	Pool Water Quality Date 30 Sep 2024		
	Parameter	Control Limit	Result
	pH	6.8 - 7.8	7.23
	Free Chlorine	1 - 3 ppm	2.01
	Cyanuric Acid	< 150 ppm	0.00
	TDS	-	1096 ppm
	Hardness	-	76 ppm as CaCO ₃
	Escherichia Coli	< 1.1 MPN/100ml	< 1.1 *01 Oct 2024
	Total Coliform	< 1.1 MPN/100ml	< 1.1 *01 Oct 2025
	Legionella spp.	< 1 CFU / L	< 1 *01 Oct 2024
ON CONTROL			
Pool Water Trending			
<div> <div> Hyatt Regency Sukumvit Pool Quality Sep 2024 - pH  </div> <div> Hyatt Regency Sukumvit Pool Quality Sep 2024- Chlorine  </div> </div>			
Comment & Recommendation			
1. Overall all parameter are in good control, Diversey system running properly to maintain both pH and Free chlorine to meet target control to meet standard safety 2. Water sampling was collected on 01 October 2024 for bacteria testing. All testing shows "<" lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting), means excellent result of protection againts bacteria.			



Accreditation No. 1031/47

Analysis / Test Report

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

P/O :

Project Name :

Project Location :

Lot ID: 24119091

Date Received : Oct 30, 2024

Date Reported : Nov 16, 2024

Report Number : 3150262-1

Page 1 of 2

Sample Number	24119091-1
Sampled Date	Oct 30, 2024 8:45 AM
Sample Description	Pool water
Date Analysis Commenced	Oct 30, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Escherichia coli</i> *	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 F	Bangkok
<i>Legionella spp.</i> *	CFU/L	-	-	<1	ISO 11731 (2017)	Bangkok
<i>Pseudomonas aeruginosa</i> *	CFU/100mL	-	-	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9213 E	Bangkok
<i>Staphylococcus aureus</i> *	CFU/100mL	-	-	<1	In-house method STM No. 01-054 in connection with: - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9213 B - FDA BAM online, 2016 (Chapter 12)	Bangkok
Total Coliform *	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing						
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH ₃ (B, F)	Bangkok
Nitrate as N	mg/L	0.06	0.2	18.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
pH at 25 degree C		-	-	7.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Residual Free Chlorine	mg/L	-	0.1	1.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1072	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃	mg/L	-	1	58	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Approved by

Sithichok T.

Sithichok Thongnguen

Scientist (3)

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Accreditation No. 1031/47

Analysis / Test Report

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

P/O :

Project Name :

Project Location :

Lot ID: 24119091

Date Received : Oct 30, 2024

Date Reported : Nov 16, 2024

Report Number : 3150262-1

Page 2 of 2

Note : Microbiological Testing Result <1 mean Bacteria not found in agar plate.

Sampling By : Panupong Homewong

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Sithichok Thongnguen

Scientist (3)



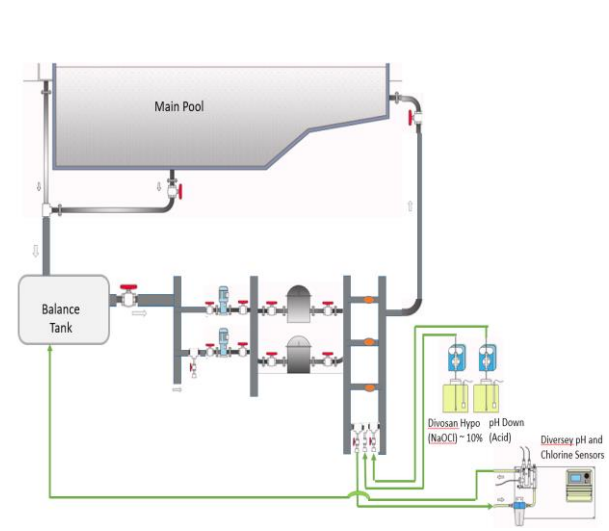

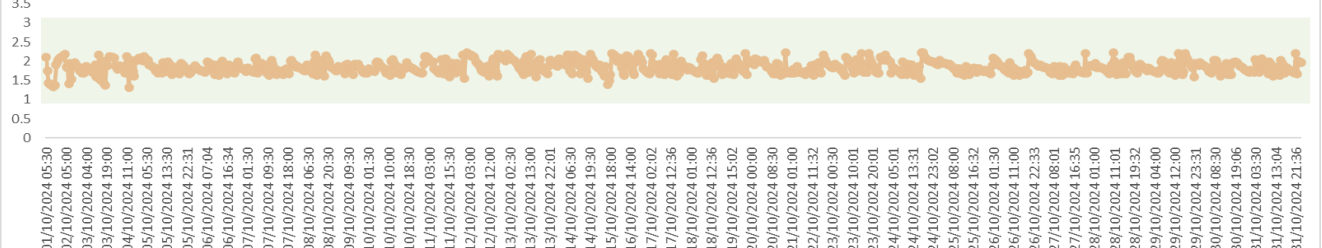
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MONTHLY SERVICE REPORT			
Reported by DIVERSEY CC Latest Data	Albertus G / Kittigunya Vikas M / Piyada / Phatchuka V Thursday, October 31, 2024	Report to Hyattt Regency CC Report Date	K. Suwit Polrachom Tuesday, 12 November 2024
Main Pool Water Parameters			
	Pool Water Quality		Date 31 Oct 2024
	Parameter	Control Limit	Result
	pH	6.8 - 7.8	7.36
	Free Chlorine	1 - 3 ppm	1.94
	Cyanuric Acid	< 150 ppm	0.00
	TDS	-	1072 ppm
	Hardness	-	58 ppm as CaCO ₃
	Escherichia Coli	< 1.1 MPN/100ml	< 1.1 *30 Oct 2024
	Total Coliform	< 1.1 MPN/100ml	< 1.1 *30 Oct 2025
Legionella spp.	< 1 CFU / L	< 1 *30 Oct 2024	
ON CONTROL			
Pool Water Trending			
<div><div>Hyatt Regency Sukumvit Pool Quality Oct 2024 - pH </div><div>Hyatt Regency Sukumvit Pool Quality Oct 2024- Chlorine </div></div>			
Comment & Recommendation			
1. Overall all parameter are in good control, Diversey system running properly to maintain both pH and Free chlorine to meet target control to meet standard safety			
2. Water sampling was collected on 30 October 2024 for bacteria testing. All testing shows "<" lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting), means excellent result of protection againts bacteria.			



Analysis / Test Report

TESTING
No.0009

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

Lot ID: 24127235

Date Received : Nov 29, 2024

Date Reported : Dec 11, 2024

Report Number : 3179715-1

P/O :
Project Name :
Project Location :

Page 1 of 1

Sample Number	24127235-1
Sampled Date	Nov 29, 2024 9:35 AM
Sample Description	Pool water
Date Analysis Commenced	Nov 29, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing						
Nitrate as N *	mg/L	0.06	0.2	27.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
pH at 25 degree C *		-	-	7.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1296	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	81	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Sampling By : Panupong Homewong



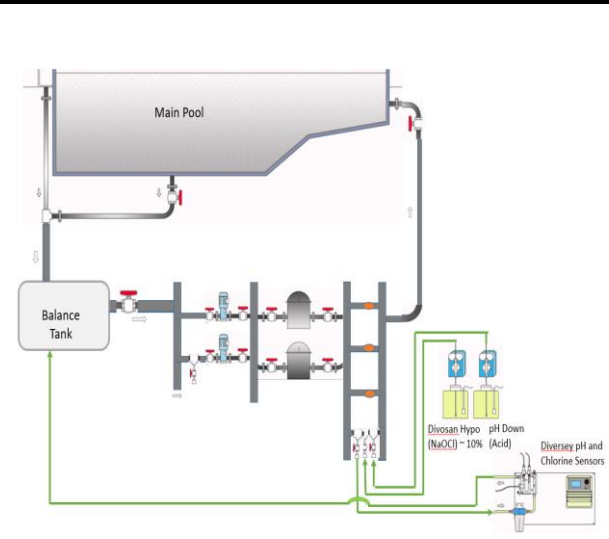
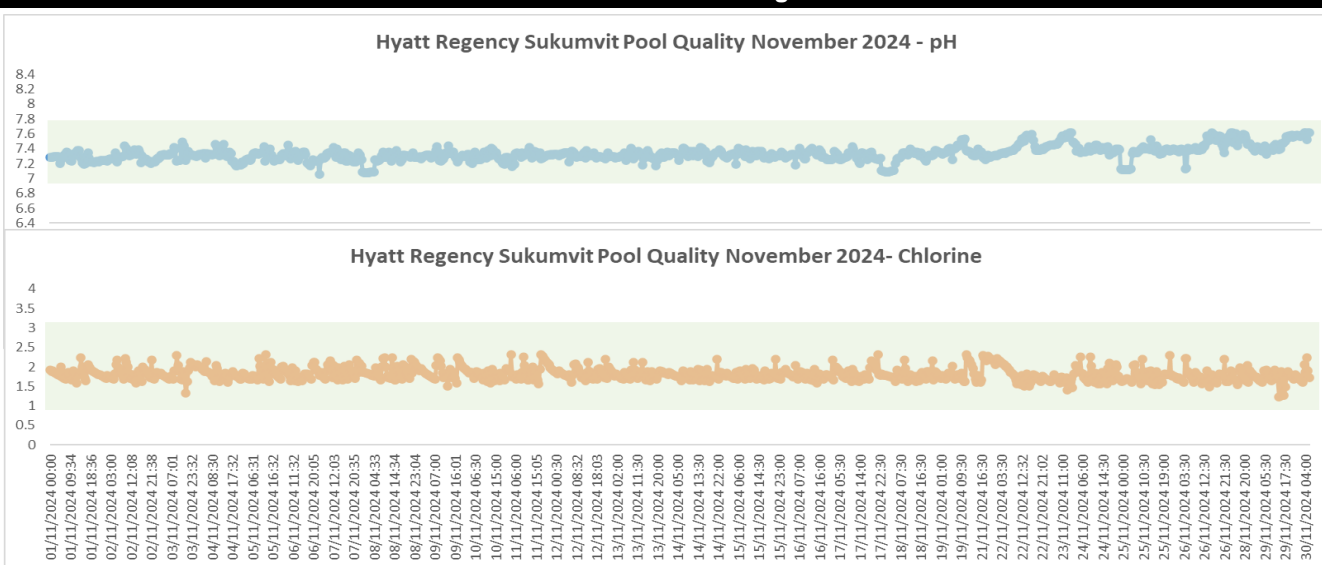
Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Narin Saiseng
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

	Diversey Hygiene (Thailand) Co., Ltd. 33/4 The Nine Tower Grand Rama 9 27th Floor, Building B, Rama 9 Road Huai Khwang Subdistrict Huai Khwang District Bangkok 10310	 HYATT REGENCY™ <small>BANGKOK SUKHUMVIT</small>	Hyatt Regency Bangkok Sukhumvit 1 Soi Sukhumvit 13, Khlong Toei Nuea, Watthana, Bangkok, 10110, Thailand
MONTHLY SERVICE REPORT			
Reported by DIVERSEY CC Latest Data	Albertus G / Kittigunya Vikas M / Piyada / Phatchuka V Saturday, November 30, 2024	Report to Hyattt Regency CC Report Date	K. Suwit Polrachom Monday, 23 December 2024
Main Pool Water Parameters			
	Pool Water Quality		Date 30 Nov 2024
	Parameter	Control Limit	Result
	pH	6.8 - 7.8	7.00
	Free Chlorine	1 - 3 ppm	1.87
	Cyanuric Acid	< 150 ppm	0.00
	TDS	-	1,292 ppm
	Hardness	-	81 ppm as CaCO ₃
	Escherichia Coli	< 1.1 MPN/100ml	< 1.1 *29 Nov 2024
	Total Coliform	< 1.1 MPN/100ml	< 1.1 *29 Nov 2024
Legionella spp.	< 1 CFU / L	< 1 *30 Oct 2024	
ON CONTROL			
Pool Water Trending			
			
Comment & Recommendation			
1. Overall all parameter are in good control, Diversey system running properly to maintain both pH and Free chlorine to meet target control to meet standard safety 2. Water sampling was collected on 29 November 2024 for bacteria testing. All testing shows "<" lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting), means excellent result of protection agaaints bacteria.			



Analysis / Test Report

TESTING
No.0009

Client : Diversey Hygiene (Thailand) Co., Ltd.
33/4 The 9th Tower Grand Rama9, 27th Floor, Tower B, Rama 9 Road., Huaykwang,
Huaykwang, Bangkok Thailand 10310

Lot ID: 24137303

Date Received : Dec 20, 2024

Date Reported : Jan 02, 2025

Report Number : 3197783-1

P/O :
Project Name :
Project Location :

Page 1 of 1

Sample Number	24137303-1
Sampled Date	Dec 20, 2024 10:40 AM
Sample Description	Pool water
Date Analysis Commenced	Dec 20, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 F	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing						
Nitrate as N *	mg/L	0.06	0.2	42.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
pH at 25 degree C *		-	-	7.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1720	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	96	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Sampling By : Chulladet Warin

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)



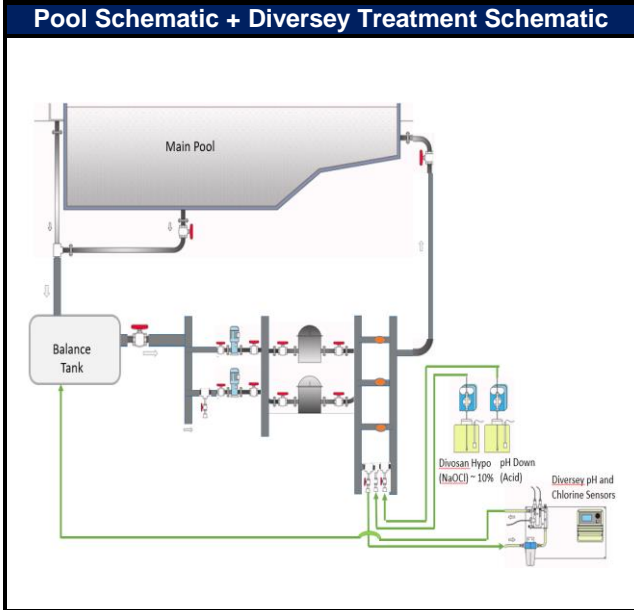
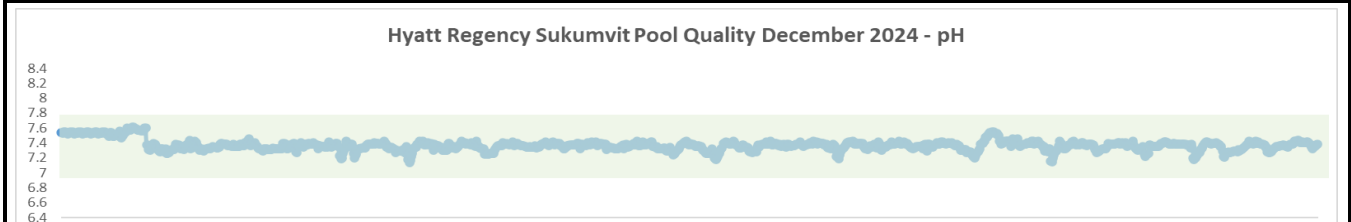
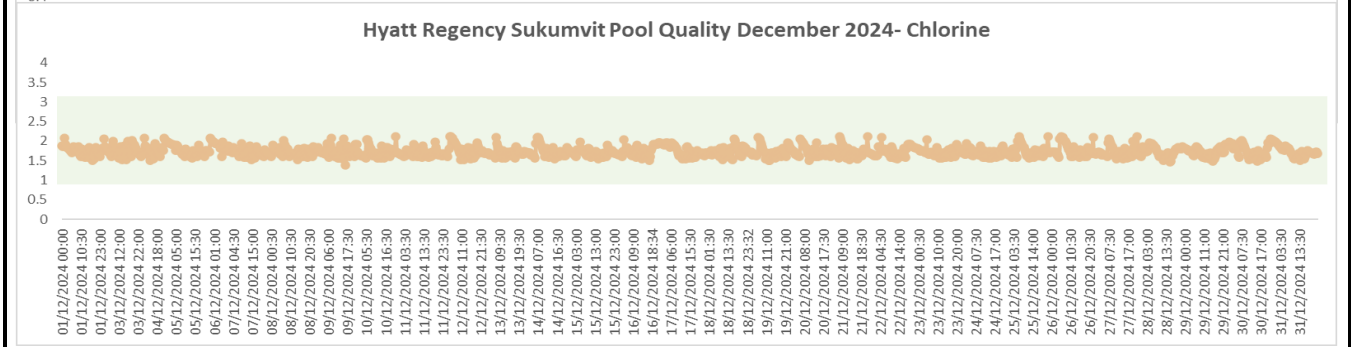
Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Life Sciences

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Pool Schematic + Diversey Treatment Schematic 	<table> <tr> <th>Parameter</th><th>Control Limit</th><th>Date</th><th>31 Dec 2024</th></tr> <tr> <td>pH</td><td>6.8 - 7.8</td><td></td><td>7.50</td></tr> <tr> <td>Free Chlorine</td><td>1 - 3 ppm</td><td></td><td>1.83</td></tr> <tr> <td>Cyanuric Acid</td><td>< 150 ppm</td><td></td><td>0.00</td></tr> <tr> <td>TDS</td><td>-</td><td></td><td>1,720 ppm</td></tr> <tr> <td>Hardness</td><td>-</td><td></td><td>96 ppm as CaCO₃</td></tr> <tr> <td>Escherichia Coli</td><td>< 1.1 MPN/100ml</td><td></td><td>< 1.1 <small>*20 Dec 2024</small></td></tr> <tr> <td>Total Coliform</td><td>< 1.1 MPN/100ml</td><td></td><td>< 1.1 <small>*20 Dec 2024</small></td></tr> <tr> <td>Legionella spp.</td><td>< 1 CFU / L</td><td></td><td>< 1 <small>*30 Oct 2024</small></td></tr> <tr> <td colspan="4">ON CONTROL</td></tr> </table>			Parameter	Control Limit	Date	31 Dec 2024	pH	6.8 - 7.8		7.50	Free Chlorine	1 - 3 ppm		1.83	Cyanuric Acid	< 150 ppm		0.00	TDS	-		1,720 ppm	Hardness	-		96 ppm as CaCO ₃	Escherichia Coli	< 1.1 MPN/100ml		< 1.1 <small>*20 Dec 2024</small>	Total Coliform	< 1.1 MPN/100ml		< 1.1 <small>*20 Dec 2024</small>	Legionella spp.	< 1 CFU / L		< 1 <small>*30 Oct 2024</small>	ON CONTROL			
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