

## เอกสารแนบ 4

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เอกสารผลการตรวจวิเคราะห์คุณภาพ  
สิ่งแวดล้อม



# ENVIRONMENTAL MEASUREMENTS CO., LTD.

5/45 Baan Klang Krung Biz Town, Sol Srlnagarindra 46/1 (Pramote), NONG BON Sub-district, PRAWET District, BANGKOK 10250

Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 23/01/2025 Analytical Date : 24/01-04/02/2025  
Sample Type : Waste water Report Date : 05/02/2025  
Customer Code : JP 023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	7.1	6.1	7.4	5.5-9.0
BOD	mg/L	5 Day BOD Membrane Electrode	2.0	313	22	12	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	2.5	322	50	31	30
Total Dissolved Solids	mg/L	Dried at 180 °C	2.5	288	450	322	1,000
Settleable Solids	ml/L	Volumetric Method	0.1	<0.1	<0.1	<0.1	-
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	1.5	51	9.0	11	35
Oil & Grease	mg/L	Partition - gravimetric method	2.0	13	<2.0	<2.0	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.8	>160,000	54,000	92,000	-
Analysis No.				WW 0073	WW 0074	WW 0075	
Sampling Time				14:17	14:22	14:30	
Sample Condition				Brow Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: UAE

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public

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Analyst

Laboratory Manager



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 23/01/2025 Analytical Date : 24/01-04/02/2025  
Sample Type : Swimming Pool Report Date : 05/02/2025  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.7	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	1.7	0.6-1.0
Chloride <sup>2)</sup>	mg/L as Cl <sup>-</sup>	Argentometric Method	2.0	1,976	600
Alkalinity <sup>2)</sup>	mg/L as CaCO <sub>3</sub>	Titration Method	-	103	80-100
Calcium Hardness <sup>2)</sup>	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric Method	1.0	78	250-600
Cyanuric acid <sup>2)</sup>	mg/L	Turbidimetric Method	1	<1	30-60
Ammonia <sup>2)</sup>	mg/L as NH <sub>3</sub>	Phenate Method	0.04	0.12	20
Nitrate <sup>2)</sup>	mg/L as NO <sub>3</sub> <sup>-</sup>	Cadmium Reduction Method	0.09	1.3	50
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not Detected	Not Detected	Not Detected
<i>Pseudomonas aeruginosa</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not Detected	Not Detected	Not Detected
Analysis No.				WW 0076	
Sampling Time				14:07	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: UAE



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Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 23/01/2025 Analytical Date : 24/01-04/02/2025  
Sample Type : Swimming Pool Report Date : 05/02/2025  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.7	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	1.7	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	Not detected	Not detected
Analysis No.				WW 0076	
Sampling Time				14:07	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: UAE



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10250 Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 23/01/2025 Analytical Date : 24/01-04/02/2025  
Sample Type : Drinking Water (Ice) Report Date : 05/02/2025  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Machine Room Service Floor 2	Belga bar Floor 32	
Standard Plate Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	Not detected	Not detected	Not detected
Analysis No.				WW 0077	WW 0080	
Sampling Time				13:37	13:55	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE

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Sample Date : 23/01/2025 Analytical Date : 24/01-04/02/2025  
Sample Type : Drinking Water (Ice) Report Date : 05/02/2025  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Corridor Floor 15	Corridor Floor 18	
Standard Plate Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	Not detected	Not detected	Not detected
Analysis No.				WW 0078	WW 0079	
Sampling Time				13:43	13:49	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE



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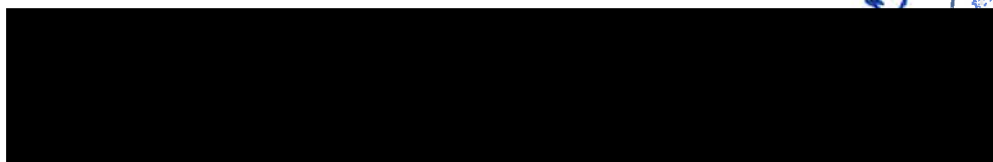
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 23/01/2025 Analytical Date : 24/01-04/02/2025  
Sample Type : Drinking Water (Ice) Report Date : 05/02/2025  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Corridor Floor 12	
Standard Plate Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	Not detected	Not detected
Analysis No.				WW 0081	
Sampling Time				14:01	
Sample Condition				Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/02/2025 Analytical Date : 21/02-07/03/2025  
Sample Type : Waste water Report Date : 10/03/2025  
Customer Code : JP 023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	7.3	6.8	7.1	5.5-9.0
BOD	mg/L	5 Day BOD Membrane Electrode	2.0	343	26	14	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	2.5	292	40	16	30
Total Dissolved Solids	mg/L	Dried at 180 °C	2.5	406	356	548	1,000
Settleable Solids	ml/L	Volumetric Method	0.1	<0.1	<0.1	<0.1	-
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	1.5	60	17	16	35
Oil & Grease	mg/L	Partition - gravimetric method	2.0	23	10	13	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.8	>160,000	>160,000	92,000	-
Analysis No.				WW 0319	WW 0320	WW 0321	
Sampling Time				14:14	14:07	14:19	
Sample Condition				Brown Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: UAE

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/02/2025 Analytical Date : 21/02-07/03/2025  
Sample Type : Swimming Pool Report Date : 10/03/2025  
Customer Code : JP-023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	8.2	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	0.6	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				VW 0322	
Sampling Time				13:50	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: UAE



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10250

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Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/02/2025 Analytical Date : 21/02-07/03/2025  
Sample Type : Drinking Water Report Date : 10/03/2025  
Customer Code : JP-023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				ICE IC F6 01 Bon Bon	Drinking Water Canteen Bon Bon	
Colour, Odour	-	Sensory Test	-	Not detected	Not detected	Not detected
Turbidity	NTU	Nephelometric	0.01	0.14	0.27	5
pH	-	Electrometric	-	7.9	7.3	6.5-9
Total Solids	mg/L	Dried at 103-105 °C	2.5	<2.5	200	-
Chloride <sup>2)</sup>	mg/L as Cl <sub>2</sub>	Argentometric Method	2.0	13	23	250
Total Hardness	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric	1.0	<1.0	90	500
Nitrate-Nitrogen <sup>2)</sup>	mg/L as NO <sub>3</sub> -N	Cadmium Reduction Method	0.02	<0.02	<0.02	50
Sulfate <sup>2)</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Turbidimetric Method	1.0	16	31	1000
Arsenic (As) <sup>2)</sup>	mg/L	Hydride Generation, AAS	0.0003	<0.0003	0.0005	0.01
Barium (Ba) <sup>2)</sup>	mg/L	Direct, ICP Method	0.003	0.029	0.052	1.7
Cadmium (Cd) <sup>2)</sup>	mg/L	Direct, ICP Method	0.001	<0.001	<0.001	0.03
Chromium (Cr) <sup>2)</sup>	mg/L	Direct, ICP Method	0.001	<0.001	<0.001	0.05
Copper (Cu) <sup>2)</sup>	mg/L	Direct, ICP Method	0.001	0.007	0.002	1
Iron (Fe) <sup>2)</sup>	mg/L	Direct, ICP Method	0.002	<0.002	<0.002	0.3
Lead (Pb) <sup>2)</sup>	mg/L	Direct, ICP Method	0.002	<0.002	<0.002	0.01
Manganese (Mn) <sup>2)</sup>	mg/L	Direct, ICP Method	0.001	<0.001	<0.001	0.1
Mercury (Hg) <sup>2)</sup>	mg/L	Cold-Vapor, AAS	0.0001	<0.0001	<0.0001	0.001
Selenium (Se) <sup>2)</sup>	mg/L	Hydride Generation, AAS	0.0005	<0.0005	<0.0005	0.01
Silver (Ag) <sup>2)</sup>	mg/L	Direct, ICP Method	0.003	<0.003	<0.003	0.005
Zinc (Zn) <sup>2)</sup>	mg/L	Direct, ICP Method	0.001	0.018	0.023	4
Aluminum (Al) <sup>2)</sup>	mg/L	Direct, ICP Method	0.005	<0.005	0.027	0.2
Phenol <sup>2)</sup>	mg/L	Distillation, 4-Aminoantipyrine	0.001	<0.001	<0.001	-
Cyanide <sup>2)</sup>	mg/L as CN <sup>-</sup>	Pyridine-Barbituric acid	0.001	<0.001	<0.001	0.07
Analysis No.				WW 0323	WW 0324	
Sampling Time				13:28	13:21	
Sample Condition				Clear	Clear	



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Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/02/2025 Analytical Date : 21/02-07/03/2025  
Sample Type : Drinking Water Report Date : 10/03/2025  
Customer Code : JP-023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				ICE IC F6 01 Bon Bon	Drinking Water Canteen Bon Bon	
Residual Chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric	0.1	<0.1	<0.1	0.6-1.1
Alkylbenzene Sulphonate <sup>2)</sup>	mg/L	Methylene Blue Method	0.035	<0.035	<0.035	-
Fluoride <sup>2)</sup>	mg/L as F <sup>-</sup>	SPADNS Method	0.02	0.13	0.23	1.5
Total Bacteria <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	<1	Not detected
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	MPN/100ml	MPN Method, Detection	1.1	<1.1	<1.1	Not detected
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	Not detected
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	Not detected
<i>Clostridium perfringens</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	Not detected
Analysis No.				WW 0323	WW 0324	
Sampling Time				13:28	13:21	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE

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Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/02/2025 Analytical Date : 21/02-07/03/2025  
Sample Type : Tap Water Report Date : 10/03/2025  
Customer Code : JP 023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Shower Water (Room 0808)	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	100	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	Not detected	Not detected
Analysis No.				WW 0325	
Sampling Time				13:56	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: UAE



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 19/03/2025 Analytical Date : 21/03-05/04/2025  
Sample Type : Swimming Pool Report Date : 09/04/2025  
Customer Code : JP-023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	8.2	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	0.8	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	Not detected	Not detected
Analysis No.				WW 0537	
Sampling Time				14:00	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: UAE



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Fax: 0-2716-3507

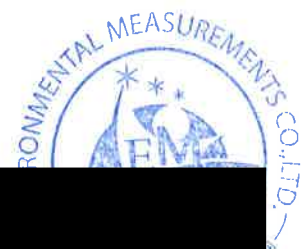
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 19/03/2025 Analytical Date : 21/03-03/04/2025  
Sample Type : Drinking Water Report Date : 09/04/2025  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Portable Water Kitchen floor 32	Portable Water Kitchen floor 2	
Total Viable Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	MPN/100ml	MPN Method, Detection	1.1	<1.1	<1.1	Not detected
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	-
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	-
<i>Clostridium perfringens</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	Not detected
Analysis No.				WW 0539	WW 0540	
Sampling Time				13:40	14:07	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 19/03/2025 Analytical Date : 21/03-03/04/2025  
Sample Type : Cooling Water Report Date : 03/04/2025  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Cooling Water	
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.8	<1.8	-
<i>Legionella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not detected	Not detected	Not detected
Analysis No.				WW 0538	
Sampling Time				13:33	
Sample Condition				Clear, Yellow	

Regulatory Standard : Announcement of the department of health (Thailand), Practice for the control of legionella bacteria in cooling towers, January 2001

: <sup>2)</sup> Subcontract: UAE



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 19/03/2025 Analytical Date : 21/03-03/04/2025  
Sample Type : Tap Water Report Date : 09/04/2025  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Jacucci	
pH	-	Electrometric Method	-	8.2	6.5-8.5
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	0.6	0.2-2.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	500
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	Not detected
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
E. coli <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				WW 0541	
Sampling Time				13:55	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: UAE



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 19/03/2025 Analytical Date : 21/03-03/04/2025  
Sample Type : Tap Water Report Date : 09/04/2025  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Spa Water Almond	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				WW 0542	
Sampling Time				13:45	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: UAE



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 24/04/2025 Analytical Date : 25/04-06/05/2025  
Sample Type : Waste water Report Date : 09/05/2025  
Customer Code : JP 023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	7.2	7.5	7.5	5.5-9.0
BOD	mg/L	5 Day BOD Membrane Electrode	2.0	303	5.6	4.7	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	2.5	292	6.0	5.8	30
Total Dissolved Solids	mg/L	Dried at 180 °C	2.5	298	380	298	1,000
Settleable Solids	ml/L	Volumetric Method	0.1	<0.1	<0.1	<0.1	-
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	1.5	51	5.2	<1.5	35
Oil & Grease	mg/L	Partition - gravimetric method	2.0	9.0	2.7	<2.0	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.8	>160,000	28,000	11,000	-
Analysis No.				WW 0820	WW 0821	WW 0822	
Sampling Time				15:15	15:20	15:02	
Sample Condition				Brow Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: UAE

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 24/04/2025 Analytical Date : 25/04-06/05/2025  
Sample Type : Drinking Water (Ice) Report Date : 09/05/2025  
Customer Code : JP-023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Belga Kitchen	Club Kitchen	
Standard Plate Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	<1.1	Not detected
Analysis No.				WW 0845	WW 0846	
Sampling Time				14:10	14:20	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 24/04/2025 Analytical Date : 25/04-06/05/2025  
Sample Type : Drinking Water (Ice) Report Date : 09/05/2025  
Customer Code : JP-023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Room Service F.2	Le Macaron F.G	
Standard Plate Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	<1.1	Not detected
Analysis No.				WW 0847	WW 0848	
Sampling Time				14:30	14:55	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 24/04/2025 Analytical Date : 25/04-06/05/2025  
Sample Type : Swimming Pool Report Date : 09/05/2025  
Customer Code : JP-023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	8.1	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	1.0	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				WW 0824	
Sampling Time				14:25	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: UAE



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 22/05/2025 Analytical Date : 23/05-04/06/2025  
Sample Type : Waste water Report Date : 05/06/2025  
Customer Code : JP 023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	7.0	7.1	7.6	5.5-9.0
BOD	mg/L	5 Day BOD Membrane Electrode	2.0	178	9.6	2.8	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	2.5	160	12	6.0	30
Total Dissolved Solids	mg/L	Dried at 180 °C	2.5	416	384	308	1,000
Settleable Solids	ml/L	Volumetric Method	0.1	<0.1	<0.1	<0.1	-
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	1.5	46	6.6	8.8	35
Oil & Grease	mg/L	Partition - gravimetric method	2.0	4.0	3.1	5.5	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.8	>160,000	26,000	490	-
Analysis No.				WW 1118	WW 1119	WW 1120	
Sampling Time				14:02	14:07	14:19	
Sample Condition				Brow Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: UAE

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 22/05/2025 Analytical Date : 23/05-04/06/2025  
Sample Type : Swimming Pool Report Date : 05/06/2025  
Customer Code : JP-023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.9	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	0.67	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				WW 1121	
Sampling Time				13:48	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: UAE



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 22/05/2025 Analytical Date : 23/05-04/06/2025  
Sample Type : Tap Water Report Date : 05/06/2025  
Customer Code : JP 023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Shower Water (Room 1615)	
Standard Plate Count	CFU/ml	Standard Plate Count	1	<1	
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
Analysis No.				WW 1122	
Sampling Time				13:38	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: UAE



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 22/05/2025 Analytical Date : 23/05-04/06/2025  
Sample Type : Tap Water Report Date : 05/06/2025  
Customer Code : JP 023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				น้ำตกหน้าโรงแรม	
Legionella spp. <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
Analysis No.				WW 1123	
Sampling Time				13:55	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: UAE



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/06/2025 Analytical Date : 20/06-08/07/2025  
Sample Type : Waste water Report Date : 08/07/2025  
Customer Code : JP 023-6-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	7.0	7.2	7.2	5.5-9.0
BOD	mg/L	5 Day BOD Membrane Electrode	2.0	216	9.7	6.7	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	2.5	208	11	9.8	30
Total Dissolved Solids	mg/L	Dried at 180 °C	2.5	290	340	296	1,000
Settleable Solids	ml/L	Volumetric Method	0.1	<0.1	<0.1	<0.1	-
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	1.0	<1.0	1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	1.5	47	6.0	<1.5	35
Oil & Grease	mg/L	Partition - gravimetric method	2.0	8.0	3.6	<2.0	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.8	>160,000	28,000	54,000	-
Analysis No.				WW 1352	WW 1353	WW 1354	
Sampling Time				14:00	14:18	14:23	
Sample Condition				Brown Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: UAE

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/06/2025 Analytical Date : 20/06-14/07/2025  
Sample Type : Swimming Pool Report Date : 17/07/2025  
Customer Code : JP-023-6-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	8.0	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Ferrous Titrimetric Method	0.1	0.64	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				VW 1355	
Sampling Time				13:25	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/06/2025 Analytical Date : 20/06-14/07/2025  
Sample Type : Cooling Water Report Date : 17/07/2025  
Customer Code : JP 023-6-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Cooling Water	
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.8	<1.8	-
<i>Legionella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not detected	9,500	Not detected
Analysis No.				WW 1356	
Sampling Time				13:40	
Sample Condition				Clear, Yellow	

Regulatory Standard : Announcement of the department of health (Thailand), Practice for the control of legionella bacteria in cooling towers, January 2001

: <sup>2)</sup> Subcontract: UAE

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Analyst

Laboratory Manager



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# ENVIRONMENTAL MEASUREMENTS CO., LTD.

5/45 Baan Klang Krung Biz Town, Soi Srinagarindra 46/1 (Pramote), NONG BON Sub-district, PRAWET District, BANGKOK

10250

Tel: 0-2716-3506-7

Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/06/2025 Analytical Date : 25/06-14/07/2025  
Sample Type : Drinking Water Report Date : 17/07/2025  
Customer Code : JP 023-6-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Portable Water Kitchen Bella sera Show kitchen	
Total Viable Count <sup>2)</sup>	CFU/ml	Standard Plate Count	1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	MPN/100ml	MPN Method, Detection	1.1	<1.1	Not detected
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	-
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	-
<i>Clostridium perfringens</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected
Analysis No.				WW 1357	
Sampling Time				13:10	
Sample Condition				Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: UAE



Analyst

Laboratory Manager



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/06/2025 Analytical Date : 25/06-14/07/2025  
Sample Type : Tap Water Report Date : 17/07/2025  
Customer Code : JP 023-6-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Jacucci (Room 3016)	
pH	-	Electrometric Method	-	7.6	6.5-8.5
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	0.10	0.84	0.2-2.0
Total Bacteria <sup>2)</sup>	CFU/100ml	Standard Plate Count	1	<1	500
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	Not detected
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				WW 1359	
Sampling Time				13:30	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: UAE

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5/45 Baan Klang Krung Biz Town, Soi Srinagarindra 46/1 (Pramote), NONG BON Sub-district, PRAWET District, BANGKOK 10250

Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 19/03/2025 Analytical Date : 25/06-14/07/2025  
Sample Type : Tap Water Report Date : 17/07/2025  
Customer Code : JP 023-6-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Spa Water Red Rice	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	1.1	<1.1	Not detected
Analysis No.				WW 1358	
Sampling Time				13:20	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority,2017

: <sup>2)</sup> Subcontract: UAE

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