

# เอกสารแนบ 4

เอกสารผลการตรวจวัดคุณภาพ  
สิ่งแวดล้อม

## ANALYSIS REPORT

**CUSTOMER NAME** : ALOFT BANGKOK SUKHUMVIT 11  
**ADDRESS** : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com  
**SAMPLING SOURCE** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JULY 12, 2021  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS KALLAYA SOMPHONG

**RECEIVED DATE** : JULY 12, 2021  
**ANALYTICAL DATE** : JULY 12-19, 2021  
**REPORT NO.** : 2021-U52311  
**WORK NO.** : 2020-008581  
**ANALYSIS NO.** : T21AM646-0013 - T21AM646-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:30 HOUR 1/ T21AM646-0013	2 14:25 HOUR 1/ T21AM646-0014		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.2 (31°C)	7.3 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	26.2	3.5	≤ 20	2.0
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	16.1	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105°C); SM 2540 C	582	608	500*	25
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	31.7	6.4	≤ 35	1.5
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: 4500-S <sup>2-</sup> F)	ND	ND	≤ 1.0	0.50

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:30 HOUR I/ T21AM646-0013	2 14:25 HOUR I/ T21AM646-0014		
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	YELLOW/CLEAR BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED  
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JULY 27, 2021



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:50 HOUR 1/ T21A0606-0004	2 13:45 HOUR 1/ T21A0606-0005		
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED  
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

< LOQ : < LEVEL OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.



(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

AUGUST 27, 2021

## ANALYSIS REPORT

**CUSTOMER NAME** : ALOFT BANGKOK SUKHUMVIT 11  
**ADDRESS** : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com  
**SAMPLING SOURCE** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : SEPTEMBER 10, 2021  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS AMONRAT PUTTALEE

**RECEIVED DATE** : SEPTEMBER 10, 2021  
**ANALYTICAL DATE** : SEPTEMBER 10-17, 2021  
**REPORT NO.** : 2021-U68106  
**WORK NO.** : 2020-008581  
**ANALYSIS NO.** : T21AQ901-0004 - T21AQ901-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:45 HOUR 1/ T21AQ901-0004	2 14:40 HOUR 1/ T21AQ901-0005		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.3 (30°C)	7.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	38.3	2.0	≤ 20	2.0
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	22.9	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105°C); SM 2540 C	356	236	500*	25
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	35.4	9.4	≤ 35	1.5
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: 4500-S <sup>2-</sup> F)	ND	ND	≤ 1.0	0.50



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:45 HOUR 1/ T21AQ901-0004	2 14:40 HOUR 1/ T21AQ901-0005		
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREY	YELLOW/CLEAR YELLOW		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED  
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

SEPTEMBER 23, 2021

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ALOFT BANGKOK SUKHUMVIT 11	<b>RECEIVED DATE</b>	: OCTOBER 8, 2021
<b>ADDRESS</b>	: 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110	<b>ANALYTICAL DATE</b>	: OCTOBER 8-18, 2021
<b>CONTACT INFORMATION</b>	: ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com	<b>REPORT NO.</b>	: 2021-U77534
<b>SAMPLING SOURCE</b>	: WASTEWATER TREATMENT PLANT	<b>WORK NO.</b>	: 2020-008581
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>ANALYSIS NO.</b>	: T21AT212-0005 - T21AT212-0006
<b>SAMPLING DATE</b>	: OCTOBER 8, 2021		
<b>SAMPLING TIME</b>	: 1/		
<b>SAMPLING METHOD</b>	: GRAB		
<b>SAMPLING BY</b>	: MR WEERAYUT MOKKAEW		
<b>ANALYZED BY</b>	: MISS AMONRAT PUTTALEE		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:25 HOUR 1/ T21AT212-0005	2 14:30 HOUR 1/ T21AT212-0006		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.3 (31°C)	7.5 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	44.7	ND	≤ 20	2.0
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: 2540 F)	0.1	< 0.1	≤ 0.5	0.1
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	20.0	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105°C); SM 2540 C	288	396	500*	25
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	41.6	8.0	≤ 35	1.5
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: 4500-S <sup>2-</sup> F)	3.10	ND	≤ 1.0	0.50





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 14:25 HOUR 1/ T21AT212-0005	2 14:30 HOUR 1/ T21AT212-0006		
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREY	YELLOW/TURBID YELLOW		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED  
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

OCTOBER 25, 2021

## ANALYSIS REPORT

**CUSTOMER NAME** : ALOFT BANGKOK SUKHUMVIT 11  
**ADDRESS** : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com  
**SAMPLING SOURCE** : WASTEWATER TREATMENT PLANT  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : NOVEMBER 11, 2021  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS AMONRAT PUTTALEE

**RECEIVED DATE** : NOVEMBER 11, 2021  
**ANALYTICAL DATE** : NOVEMBER 11-18, 2021  
**REPORT NO.** : 2021-U87897  
**WORK NO.** : 2020-008581  
**ANALYSIS NO.** : T21AV868-0004 - T21AV868-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:55 HOUR 1/ T21AV868-0004	2 13:50 HOUR 1/ T21AV868-0005		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	6.7 (30°C)	6.9 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	55.8	10.0	≤ 20	2.0
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: 2540 F)	0.3	< 0.1	≤ 0.5	0.1
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	62.4	8.5	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105°C); SM 2540 C	358	418	500*	25
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	48.9	7.9	≤ 35	1.5
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: 4500-S <sup>2-</sup> F)	2.88	ND	≤ 1.0	0.50

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:55 HOUR 1/ T21AV868-0004	2 13:50 HOUR 1/ T21AV868-0005		
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID GREY	YELLOW/TURBID YELLOW		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED  
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

COMMENT : ALL TESTED PARAMETERS OF THE EFFLUENT ARE COMPLIED WITH REGULATORY STANDARD.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 25, 2021

## ANALYSIS REPORT

**CUSTOMER NAME** : ALOFT BANGKOK SUKHUMVIT 11  
**ADDRESS** : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com  
**SAMPLING SOURCE** : ICE MACHINE REFVEL  
**SAMPLE TYPE** : ICE  
**SAMPLING DATE** : DECEMBER 10, 2021  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD °** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS ITSARIYAPORN BUATIB

**RECEIVED DATE** : DECEMBER 11, 2021  
**ANALYTICAL DATE** : DECEMBER 11-17, 2021  
**REPORT NO.** : 2021-U97435  
**WORK NO.** : 2020-008581  
**ANALYSIS NO.** : T21AY213-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ICE T21AY213-0001		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	6.9	< 2.2	1.1
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	3.6	-	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	PRESENCE	ABSENCE	-
HETERO PLATE COUNT <sup>b</sup>	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	2.1x10 <sup>2</sup>	-	1
<i>Clostridium perfringens</i> <sup>c</sup>	/100 mL	ENVIRONMENT AGENCY, THE MICROBIOLOGY OF DRINKING WATER, 2010 PART 6	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		
			-		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : ICE QUALITY STANDARDS, NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH, NO.78, B.E. 2527.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

COMMENT : PARAMETER ANALYSED OF ICE SAMPLE IS COMPLIED WITH REGULATORY STANDARD EXCEPT COLIFORM BACTERIA AND *E. coli*.

(MISS CHAWEEWAN BOONLA)  
LABORATORY SUPERVISOR

DECEMBER 23, 2021

## ANALYSIS REPORT

**CUSTOMER NAME** : ALOFT BANGKOK SUKHUMVIT 11  
**ADDRESS** : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com  
**SAMPLING SOURCE** : SWIMMING POOL  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : DECEMBER 10, 2021  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS ITSARIYAPORN BUATIB

**RECEIVED DATE** : DECEMBER 11, 2021  
**ANALYTICAL DATE** : DECEMBER 11-14, 2021  
**REPORT NO.** : 2021-U97438  
**WORK NO.** : 2020-008581  
**ANALYSIS NO.** : T21AY213-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T21AY213-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.1 (27°C)	7.2-8.4	-
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	IODOMETRIC METHOD I (SM:4500-Cl B)	1.0	0.6-1.0	0.1
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> <sup>b</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221D AND F)	ABSENCE	ABSENCE	-
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRIMENTAL TO HEALTH, B.E. 2530 (1987).

COMMENT : ALL TESTED PARAMETERS ARE COMPLIED WITH REGULATORY STANDARD EXCEPT pH .



(MISS CHAWEEVAN BOONLA)  
LABORATORY SUPERVISOR

DECEMBER 23, 2021

## ANALYSIS REPORT

**CUSTOMER NAME** : ALOFT BANGKOK SUKHUMVIT 11  
**ADDRESS** : 35 SUKHUMVIT SOI 11 (CHAIYOT), SUKHUMVIT ROAD, KHLONG TOEI NUEA WATTHANA BANGKOK 10110  
**CONTACT INFORMATION** : ALOFT HOTEL SUKHUMVIT 11 TEL : 0 2207 7098 e-mail : engineering.aloftbkk@alofthotels.com  
**SAMPLING SOURCE** : DECORATIVE FOUNTAINS  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : DECEMBER 10, 2021  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS JITSAMON NGAMKANA

**RECEIVED DATE** : DECEMBER 11, 2021  
**ANALYTICAL DATE** : DECEMBER 11-20, 2021  
**REPORT NO.** : 2021-U97439  
**WORK NO.** : 2020-008581  
**ANALYSIS NO.** : T21AY213-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			DECORATIVE FOUNTAINS T21AY213-0003
MICROBIOLOGY			
Legionella spp.	CFU/L	ISO 11731:2017-05 (E)	NOT FOUND
SAMPLE CONDITION			
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR
SEDIMENT			COLOURLESS

(MISS CHAWEEWAN BOONLA)  
 LABORATORY SUPERVISOR

DECEMBER 23, 2021





