

ภาคผนวก ค

ผลการวิเคราะห์ทางห้องปฏิบัติการ

## ภาคผนวก ค-1

---

ผลการวิเคราะห์คุณภาพน้ำจากระบบบำบัดน้ำเสีย

## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JULY 4, 2023  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : JULY 4, 2023  
**ANALYTICAL DATE** : JULY 4-12, 2023  
**REPORT NO.** : 2023-U057845  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AM683-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถังปรับสภาพน้ำเสียบ T23AM683-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.0 (34°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	12.1	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	490	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	490	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			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.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

JULY 17, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JULY 4, 2023  
**SAMPLING TIME** : 11:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : JULY 4, 2023  
**ANALYTICAL DATE** : JULY 4-12, 2023  
**REPORT NO.** : 2023-U057846  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AM683-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลพิกัดสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T23AM683-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	6.9 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T23AM683-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	700	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	700	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).

LABORATORY SUPERVISOR

JULY 17, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JULY 4, 2023  
**SAMPLING TIME** : 11:55 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : JULY 4, 2023  
**ANALYTICAL DATE** : JULY 4-12, 2023  
**REPORT NO.** : 2023-U057847  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AM683-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			แปลเก็บน้ำใน T23AM683-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.0 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			แปลเก็บน้ำใส T23AM683-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	1,300	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	790	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).

LABORATORY SUPERVISOR

JULY 17, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : AUGUST 4, 2023  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : AUGUST 4, 2023  
**ANALYTICAL DATE** : AUGUST 4-11, 2023  
**REPORT NO.** : 2023-U066647  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23A0910-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงปริมสภาพน้ำเสีย T23A0910-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.1 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	3,300	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	1,300	1.8
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			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.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

AUGUST 16, 2023





## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 4, 2023  
**SAMPLING TIME** : 09:40 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : AUGUST 4, 2023  
**ANALYTICAL DATE** : AUGUST 4-11, 2023  
**REPORT NO.** : 2023-U066649  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AO910-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอเก็บน้ำใส T23AO910-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.2 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.4	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	92,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	22,000	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

AUGUST 16, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 4, 2023  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : AUGUST 4, 2023  
**ANALYTICAL DATE** : AUGUST 4-11, 2023  
**REPORT NO.** : 2023-U066648  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AO910-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทสุดท้ายก่อน ระบายนลงสู่ท่อระบาย น้ำสาธารณะ T23AO910-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.2 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอผลที่สุดท้ายก่อน ระบายนลงสู่ท่อระบาย น้ำสาธารณะ T23A0910-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	13,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	3,300	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

AUGUST 16, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : SEPTEMBER 1, 2023  
**SAMPLING TIME** : 09:10 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : SEPTEMBER 1, 2023  
**ANALYTICAL DATE** : SEPTEMBER 1-11, 2023  
**REPORT NO.** : 2023-U076222  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AR115-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถังปรับสภาพน้ำเสียบ T23AR115-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.1 (36°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.0	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	4,900	1.8
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	700	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

° : 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.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

SEPTEMBER 14, 2023



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: AIA COMPANY LIMITED	<b>RECEIVED DATE</b>	: SEPTEMBER 1, 2023
<b>ADDRESS</b>	: 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500	<b>ANALYTICAL DATE</b>	: SEPTEMBER 1-11, 2023
<b>CONTACT INFORMATION</b>	: TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com	<b>REPORT NO.</b>	: 2023-U076223
<b>SAMPLING SOURCE</b>	: AIA EAST GATEWAY BANGNA-TRAD	<b>WORK NO.</b>	: 2022-009091
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T23AR115-0002
<b>SAMPLING DATE</b>	: SEPTEMBER 1, 2023		
<b>SAMPLING TIME</b>	: 09:15 HOUR		
<b>SAMPLING METHOD °</b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY °</b>	:		
<b>ANALYZED BY</b>	:		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T23AR115-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	6.9 (35°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.1	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อนระบายลงสู่ท่อระบายน้ำสาธารณะ T23AR115-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	17,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	2,400	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

SEPTEMBER 14, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : SEPTEMBER 1, 2023  
**SAMPLING TIME** : 09:20 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 1, 2023  
**ANALYTICAL DATE** : SEPTEMBER 1-11, 2023  
**REPORT NO.** : 2023-U076224  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AR115-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อเก็บน้ำใส T23AR115-0003		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.0 (35°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.6	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	17,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	7,000	-	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

SEPTEMBER 14, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : OCTOBER 3, 2023  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :  
**ANALYZED BY** :  
**RECEIVED DATE** : OCTOBER 3, 2023  
**ANALYTICAL DATE** : OCTOBER 3-10, 2023  
**REPORT NO.** : 2023-U087110  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AT599-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงปริมณภาพน้ำเสียบ T23AT599-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.0 (34°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	790	1.8
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	790	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			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.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

OCTOBER 17, 2023





## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: AIA COMPANY LIMITED	<b>RECEIVED DATE</b>	: OCTOBER 3, 2023
<b>ADDRESS</b>	: 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500	<b>ANALYTICAL DATE</b>	: OCTOBER 3-10, 2023
<b>CONTACT INFORMATION</b>	: TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com	<b>REPORT NO.</b>	: 2023-U087111
<b>SAMPLING SOURCE</b>	: AIA EAST GATEWAY BANGNA-TRAD	<b>WORK NO.</b>	: 2022-009091
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T23AT599-0002
<b>SAMPLING DATE</b>	: OCTOBER 3, 2023		
<b>SAMPLING TIME</b>	: 10:00 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY <sup>c</sup></b>	:		
<b>ANALYZED BY</b>	:		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิงค์สุดห้ำยก่อน ระบำนลงสู่ท่อ ระบำนน้ำสำรำน T23AT599-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.5 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.1	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อนระบายลงสู่ท่อระบายน้ำสาธารณะ T23AT599-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	7,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	1,400	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).

LABORATORY SUPERVISOR

OCTOBER 17, 2023



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: AIA COMPANY LIMITED	<b>RECEIVED DATE</b>	: OCTOBER 3, 2023
<b>ADDRESS</b>	: 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500	<b>ANALYTICAL DATE</b>	: OCTOBER 3-10, 2023
<b>CONTACT INFORMATION</b>	: TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com	<b>REPORT NO.</b>	: 2023-U087112
<b>SAMPLING SOURCE</b>	: AIA EAST GATEWAY BANGNA-TRAD	<b>WORK NO.</b>	: 2022-009091
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T23AT599-0003
<b>SAMPLING DATE</b>	: OCTOBER 3, 2023		
<b>SAMPLING TIME</b>	: 10:10 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY <sup>c</sup></b>	:		
<b>ANALYZED BY</b>	:		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อเก็บน้ำใส T23AT599-0003		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.1	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.0	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อเก็บน้ำใส T23AT599-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	35,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	35,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).

LABORATORY SUPERVISOR

OCTOBER 17, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : NOVEMBER 1, 2023  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : NOVEMBER 1, 2023  
**ANALYTICAL DATE** : NOVEMBER 1-9, 2023  
**REPORT NO.** : 2023-U097010  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AV703-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งปรับสภาพน้ำเสีย T23AV703-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	6.0 (35°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	11.5	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> - F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	7,900	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	7,900	1.8
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID 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.

ND : NON-DETECTABLE.

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

LABORATORY SUPERVISOR

NOVEMBER 14, 2023





## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : NOVEMBER 1, 2023  
**SAMPLING TIME** : 14:45 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : NOVEMBER 1, 2023  
**ANALYTICAL DATE** : NOVEMBER 1-9, 2023  
**REPORT NO.** : 2023-U097011  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AV703-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิกษุดท้ายก่อน ระบมายลงสู่ท่อ ระบายน้ำสาธารณะ T23AV703-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H* B AND 1060 B	6.6 (35°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.2	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> - F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทสุดท้ายก่อน ระบายนํ้าสู่ท่อ ระบายน้ำสาธารณะ T23AV703-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	54,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	17,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN  $\geq$  1.5 AND < 5.0 mg/L).

LABORATORY SUPERVISOR

NOVEMBER 14, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : NOVEMBER 1, 2023  
**SAMPLING TIME** : 14:40 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : NOVEMBER 1, 2023  
**ANALYTICAL DATE** : NOVEMBER 1-9, 2023  
**REPORT NO.** : 2023-U097012  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AV703-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเกินค่าใน T23AV703-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	6.6 (35°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.3	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	35,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	11,000	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID 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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

NOVEMBER 14, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 16:05 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-7, 2023  
**REPORT NO.** : 2023-U106609  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY096-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ส่งปฐนสภาพน้ำเสียบ T23AY096-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	5.2 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.3	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.6	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	< 0.50	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	22,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	17,000	1.8
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/TURBID	
SEDIMENT			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.

ND : NON-DETECTABLE.

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

LABORATORY SUPERVISOR

DECEMBER 18, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 16:26 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-7, 2023  
**REPORT NO.** : 2023-U106610  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY096-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทสุดท้ายก่อน ระบายนํ้าลงสู่ท่อ ระบายนํ้าสาธารณะ T23AY096-0002		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H+ B AND 1060 B	6.4 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.8	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.7	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	6.5	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลอดภัยสุดท้ายก่อน ระบายลงสู่ท่อ ระบายน้ำสาธารณะ T23AY096-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	7,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	4,900	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID 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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 21, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURİYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 16:20 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-7, 2023  
**REPORT NO.** : 2023-U106611  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY096-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกรับน้ำใส T23AY096-0003		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H* B AND 1060 B	6.4 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.9	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.4	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S² F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	6.1	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	7,900	-	1.8
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	4,900	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

° : 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.

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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 18, 2023





## ภาคผนวก ค-2

---

ผลการวิเคราะห์คุณภาพน้ำใช้

## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : SEPTEMBER 1, 2023  
**SAMPLING TIME** : 09:00 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 1, 2023  
**ANALYTICAL DATE** : SEPTEMBER 1-5, 2023  
**REPORT NO.** : 2023-U076225  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AR115-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ถังเก็บน้ำใช้ที่ดิน T23AR115-0004		
APPARENT COLOUR	Pt-Co	VISUAL COMPARISON METHOD (SM: PART 2120 B)	ND	≤ 15	5
ODOUR	-	OBSERVATION METHOD	NONE	NONE	-
MICROBIOLOGY					
<i>E. coli</i>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : CRITERIA OF WATER SUPPLY QUALITY, NOTIFICATION OF THE METROPOLITAN WATERWORKS AUTHORITY, B.E. 2565 (2022).

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

SEPTEMBER 14, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 15:55 HOUR  
**SAMPLING METHOD** : GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-6, 2023  
**REPORT NO.** : 2023-U106612  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY096-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ส่งเก็บน้ำใช้ใต้ดิน T23AY096-0004		
ODOUR	-	OBSERVATION METHOD	NONE	NONE	-
APPARENT COLOUR	Pt-Co	VISUAL COMPARISON METHOD (SM: PART 2120 B)	5	≤ 15	5
MICROBIOLOGY					
<i>E. coli</i> <sup>A</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

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

REGULATORY STANDARD : CRITERIA OF WATER SUPPLY QUALITY, NOTIFICATION OF THE METROPOLITAN WATERWORKS AUTHORITY, B.E. 2565 (2022).

<sup>A</sup> : SAMPLING AT 11:58 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0007 (ANALYTICAL DATE : DECEMBER 25-31, 2023)

LABORATORY SUPERVISOR

JANUARY 11, 2024



## ภาคผนวก ค-3

---

ผลการวิเคราะห์คุณภาพน้ำหอฝิ่งเย็น



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : COOLING WATER  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 15:15 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-14, 2023  
**REPORT NO.** : 2023-U108139  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY097-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดที่นำไหลเข้ามาเดิม ในระบบ ชั้น 5 T23AY097-0001		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.3 (30°C)	-	-
FREE CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
<i>Legionella</i> spp. <sup>^</sup>	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
TOTAL BACTERIA <sup>^</sup>	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	3.3x10 <sup>2</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

<sup>^</sup> : SAMPLING AT 11:45 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0004  
(ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 3, 2024)

LABORATORY SUPERVISOR

JANUARY 11, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : COOLING WATER  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 15:10 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-14, 2023  
**REPORT NO.** : 2023-U108140  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY097-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ในอ่างรองรับน้ำ ชั้น 5 T23AY097-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	8.8 (29°C)	-	-
FREE CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
<i>Legionella</i> spp. ^	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
TOTAL BACTERIA^	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	< 1	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

^ : SAMPLING AT 11:40 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0005  
(ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 3, 2024)

LABORATORY SUPERVISOR

JANUARY 11, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : COOLING WATER  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 15:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-14, 2023  
**REPORT NO.** : 2023-U108141  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY097-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ท่อน้ำทิ้งจากหอผ้ง เย็น ชั้น 5 T23AY097-0003		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	8.8 (30°C)	-	-
FREE CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
<i>Legionella spp.</i> <sup>^</sup>	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
TOTAL BACTERIA <sup>^</sup>	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	< 1	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

<sup>^</sup> : SAMPLING AT 11:50 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0006  
(ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 3, 2024)

LABORATORY SUPERVISOR

JANUARY 11, 2024



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: AIA COMPANY LIMITED	<b>RECEIVED DATE</b>	: DECEMBER 1, 2023
<b>ADDRESS</b>	: 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500	<b>ANALYTICAL DATE</b>	: DECEMBER 1-14, 2023
<b>CONTACT INFORMATION</b>	: TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com	<b>REPORT NO.</b>	: 2023-U108439
<b>SAMPLING SOURCE</b>	: AIA EAST GATEWAY BANGNA-TRAD	<b>WORK NO.</b>	: 2022-009091
<b>SAMPLE TYPE</b>	: COOLING WATER	<b>ANALYSIS NO.</b>	: T23AY098-0001
<b>SAMPLING DATE</b>	: DECEMBER 1, 2023		
<b>SAMPLING TIME</b>	: 15:30 HOUR		
<b>SAMPLING METHOD</b>	: GPAB		
<b>SAMPLING BY</b>	:		
<b>ANALYZED BY</b>	:		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดที่นำไหลเข้ามาเดิม ในระบบ คัดฟ้า T23AY098-0001		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.8 (32°C)	-	-
FREE CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
<i>Legionella spp.</i> <sup>^</sup>	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
TOTAL BACTERIA <sup>^</sup>	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	1.0x10 <sup>2</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

<sup>^</sup> : SAMPLING AT 11:30 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0001  
(ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 5, 2024)

LABORATORY SUPERVISOR

JANUARY 11, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500  
**CONTACT INFORMATION** : TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : COOLING WATER  
**SAMPLING DATE** : DECEMBER 1, 2023  
**SAMPLING TIME** : 15:35 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : DECEMBER 1, 2023  
**ANALYTICAL DATE** : DECEMBER 1-14, 2023  
**REPORT NO.** : 2023-U108440  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AY098-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ในอ่างรองรับน้ำ คาดฟ้า T23AY098-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	8.9 (28°C)	-	-
FREE CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
<i>Legionella spp.</i> <sup>^</sup>	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
TOTAL BACTERIA <sup>^</sup>	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	1.2x10 <sup>3</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

<sup>^</sup> : SAMPLING AT 11:25 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0002  
(ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 3, 2024)

LABORATORY SUPERVISOR

JANUARY 11, 2024



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: AIA COMPANY LIMITED	<b>RECEIVED DATE</b>	: DECEMBER 1, 2023
<b>ADDRESS</b>	: 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500	<b>ANALYTICAL DATE</b>	: DECEMBER 1-14, 2023
<b>CONTACT INFORMATION</b>	: TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com	<b>REPORT NO.</b>	: 2023-U108441
<b>SAMPLING SOURCE</b>	: AIA EAST GATEWAY BANGNA-TRAD	<b>WORK NO.</b>	: 2022-009091
<b>SAMPLE TYPE</b>	: COOLING WATER	<b>ANALYSIS NO.</b>	: T23AY098-0003
<b>SAMPLING DATE</b>	: DECEMBER 1, 2023		
<b>SAMPLING TIME</b>	: 15:40 HOUR		
<b>SAMPLING METHOD</b>	: GRAB		
<b>SAMPLING BY</b>	:		
<b>ANALYZED BY</b>	:		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ท่อน้ำทิ้งจาก หอสังเียน คาดฟ้า T23AY098-0003		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	9.0 (27°C)	-	-
FREE CHLORINE	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
<i>Legionella spp.</i> <sup>^</sup>	CFU/L	ISO 11731:2017-05 (E)	NOT DETECTED	NOT DETECTED	100
TOTAL BACTERIA <sup>^</sup>	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	1.4x10 <sup>2</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

REGULATORY STANDARD : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

<sup>^</sup> : SAMPLING AT 11:35 HOUR ON DECEMBER 25, 2023, ANALYSIS NO. T23AZ934-0003  
(ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 3, 2024)

LABORATORY SUPERVISOR

JANUARY 11, 2024

