

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.jil.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : NOVEMBER 29, 2022  
**SAMPLING TIME** : 15:00 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : NOVEMBER 29, 2022  
**ANALYTICAL DATE** : NOVEMBER 29 - DECEMBER 7, 2022  
**REPORT NO.** : 2022-U097893  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AX777-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงปรับสภาพน้ำเสีย T22AX777-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	9.7 (34°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	6.0	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	7,900	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	2,200	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.

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

LABORATORY SUPERVISOR

DECEMBER 15, 2022



## 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 29, 2022  
**SAMPLING TIME** : 15:10 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :

**RECEIVED DATE** : NOVEMBER 29, 2022  
**ANALYTICAL DATE** : NOVEMBER 29 - DECEMBER 7, 2022  
**REPORT NO.** : 2022-U097894  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AX777-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกผลสุดท้ายก่อน ระบายน้ำสู่ท่อระบาย น้ำสาธารณะ T22AX777-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	9.1 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	19.2	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T22AX777-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	4,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	2,200	-	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

DECEMBER 15, 2022

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: AIA COMPANY LIMITED	<b>RECEIVED DATE</b>	: NOVEMBER 29, 2022
<b>ADDRESS</b>	: 181 SURAWONG ROAD SURIYAWONG BANG RAK BANGKOK 10500	<b>ANALYTICAL DATE</b>	: NOVEMBER 29 - DECEMBER 7, 2022
<b>CONTACT INFORMATION</b>	: TEL : 08 1822 3691 e-mail : nirut.noodsombat@ap.jil.com	<b>REPORT NO.</b>	: 2022-U097895
<b>SAMPLING SOURCE</b>	: AIA EAST GATEWAY BANGNA-TRAD	<b>WORK NO.</b>	: 2022-009091
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T22AX777-0003
<b>SAMPLING DATE</b>	: NOVEMBER 29, 2022		
<b>SAMPLING TIME</b>	: 15:20 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY <sup>c</sup></b>	: [REDACTED]		
<b>ANALYZED BY</b>	: [REDACTED]		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่งชี้เกินค่าใน T22AX777-0003		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.4 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	2.1	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	31.2	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	5.9	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	13,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	490	-	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			BROWN/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.

LABORATORY SUPERVISOR

DECEMBER 15, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIAWONG 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** : DECEMBER 13, 2022  
**SAMPLING TIME** : 09:35 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-21, 2022  
**REPORT NO.** : 2022-U103927  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงรับสภาพน้ำเสีย T22AY829-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.8 (33°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	ND	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	5.2	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	1,300	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 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

DECEMBER 29, 2022



## 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** : DECEMBER 13, 2022  
**SAMPLING TIME** : 08:45 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-21, 2022  
**REPORT NO.** : 2022-U103928  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ก่อนพักสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T22AY829-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.1 (26°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	2.1	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	10.7	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	5.0	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	1,700	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	1,300	-	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

DECEMBER 29, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURYAWONG 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 13, 2022  
**SAMPLING TIME** : 09:05 HOUR  
**SAMPLING METHOD** <sup>c</sup> : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** <sup>c</sup> :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-21, 2022  
**REPORT NO.** : 2022-U103929  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอเกินน้ำใส T22AY829-0003		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.4 (27°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	2.2	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	231	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	92,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	54,000	-	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.

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

LABORATORY SUPERVISOR

DECEMBER 29, 2022





## 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** : JANUARY 9, 2023  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : JANUARY 9, 2023  
**ANALYTICAL DATE** : JANUARY 9-17, 2023  
**REPORT NO.** : 2023-U004844  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AA274-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงปรับสภาพน้ำเสีย T23AA274-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.7 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	ND	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	9.6	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	330	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	330	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.

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

LABORATORY SUPERVISOR

JANUARY 23, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIAWONG 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** : JANUARY 9, 2023  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JANUARY 9, 2023  
**ANALYTICAL DATE** : JANUARY 9-17, 2023  
**REPORT NO.** : 2023-U004845  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AA274-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ไม่พักสุดท้ายก่อน ระบายนลงสู่ท่อระบาย น้ำสาธารณะ T23AA274-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.0 (27°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	2.0	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	7.4	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อนระบายลงสู่ท่อระบายน้ำสาธารณะ T23AA274-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	13,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	13,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			BROWN/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

JANUARY 23, 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** : JANUARY 9, 2023  
**SAMPLING TIME** : 11:15 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JANUARY 9, 2023  
**ANALYTICAL DATE** : JANUARY 9-17, 2023  
**REPORT NO.** : 2023-U004846  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AA274-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อมูลภายใน T23AA274-0003		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.2 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	8.9	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	3,300	-	1.8
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	330	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			BROWN/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.

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 ≥ 1.5 AND < 5.0 mg/L).

LABORATORY SUPERVISOR

JANUARY 23, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURIAWONG 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** : FEBRUARY 2, 2023  
**SAMPLING TIME** : 15:30 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : FEBRUARY 2, 2023  
**ANALYTICAL DATE** : FEBRUARY 2-10, 2023  
**REPORT NO.** : 2023-U010177  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AB764-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ทั้งปริมสภาพน้ำเสีย T23AB764-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	6.5 (33°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	ND	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	5.3	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>MICROBIOLOGY</b>				
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	1,100	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	700	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.

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

LABORATORY SUPERVISOR

FEBRUARY 15, 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** : FEBRUARY 2, 2023  
**SAMPLING TIME** : 15:40 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : FEBRUARY 2, 2023  
**ANALYTICAL DATE** : FEBRUARY 2-10, 2023  
**REPORT NO.** : 2023-U010178  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AB764-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ก่อนพักสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T23AB764-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	6.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	5.5	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อพักสุดท้ายก่อนระบายลงสู่ท่อระบายน้ำสาธารณะ T23AB764-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B)	7,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	1,300	-	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.

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

LABORATORY SUPERVISOR

FEBRUARY 15, 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** : FEBRUARY 2, 2023  
**SAMPLING TIME** : 15:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : FEBRUARY 2, 2023  
**ANALYTICAL DATE** : FEBRUARY 2-10, 2023  
**REPORT NO.** : 2023-U010179  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AB764-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปกติเกินน้ำใส T23AB764-0003		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.1 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	5.3	≤ 30	5.0
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: 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: 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	700	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	79	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			BROWN/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

FEBRUARY 15, 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** : MARCH 1, 2023  
**SAMPLING TIME** : 15:45 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : MARCH 1, 2023  
**ANALYTICAL DATE** : MARCH 1-10, 2023  
**REPORT NO.** : 2023-U017388  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AD595-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ทั้งปรับสภาพน้ำเสีย T23AD595-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.7 (33°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	3.2	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.1	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)	1,700	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	1,700	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.

LABORATORY SUPERVISOR

MARCH 15, 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** : MARCH 1, 2023  
**SAMPLING TIME** : 16:00 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : MARCH 1, 2023  
**ANALYTICAL DATE** : MARCH 1-10, 2023  
**REPORT NO.** : 2023-U017390  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AD595-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทสุดท้ายก่อน ระบายนลงสู่ท่อระบาย น้ำสาธารณะ T23AD595-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B)	8.3 (33°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	4.1	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.6	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S° 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 T23AD595-0002		
MICROBIOLOGY					
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)	1,100	-	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

MARCH 15, 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** : MARCH 1, 2023  
**SAMPLING TIME** : 15:55 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : MARCH 1, 2023  
**ANALYTICAL DATE** : MARCH 1-10, 2023  
**REPORT NO.** : 2023-U017392  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AD595-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อเก็บน้ำใน T 23AD595-0003		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B)	8.4 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	2.0	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.8	≤ 30	5.0
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S° 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
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	1,100	-	1.8
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	330	-	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.

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

MARCH 15, 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** : APRIL 6, 2023  
**SAMPLING TIME** : 13:20 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : APRIL 6, 2023  
**ANALYTICAL DATE** : APRIL 6-20, 2023  
**REPORT NO.** : 2023-U028785  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AG222-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถึงปริมสภาพน้ำเสีย T23AG222-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (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	< 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)	4,900	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	1,700	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.

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

LABORATORY SUPERVISOR

APRIL 21, 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** : APRIL 6, 2023  
**SAMPLING TIME** : 13:10 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :  
**ANALYZED BY** :  
**RECEIVED DATE** : APRIL 6, 2023  
**ANALYTICAL DATE** : APRIL 6-20, 2023  
**REPORT NO.** : 2023-U028786  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AG222-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทสุดท้ายก่อน ระบายนลงสู่ท่อระบาย น้ำสาธารณะ T23AG222-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 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-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
			บอพักสุดท้ายก่อน ระบายลงสู่ท่อระบาย น้ำสาธารณะ T23AG222-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	2,400	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	1,300	-	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

APRIL 21, 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** : APRIL 6, 2023  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : APRIL 6, 2023  
**ANALYTICAL DATE** : APRIL 6-20, 2023  
**REPORT NO.** : 2023-U028788  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AG222-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอเก็บน้ำใน T23AG222-0003		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 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	< LOQ	≤ 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
			บ่อเก็บน้ำใส T23AG222-0003		
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)	4,900	-	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

APRIL 21, 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** : MAY 2, 2023  
**SAMPLING TIME** : 14:15 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : MAY 2, 2023  
**ANALYTICAL DATE** : MAY 2-12, 2023  
**REPORT NO.** : 2023-U036100  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AH733-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถังปรับสภาพน้ำเสีย T23AH733-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	6.6 (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	5.7	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)	460	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	240	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

MAY 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.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 2, 2023  
**SAMPLING TIME** : 14:25 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : MAY 2, 2023  
**ANALYTICAL DATE** : MAY 2-12, 2023  
**REPORT NO.** : 2023-U036101  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AH733-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลพิกัดสุดท้ายก่อน ระบายนํ้าสู่ท่อระบาย นํ้าสาธารณะ T23AH733-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	6.9 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.5	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.6	≤ 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
			บอพักสุดท้ายก่อนระบายลงสู่ท่อระบายน้ำสาธารณะ T23AH733-0002		
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)	3,300	-	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

MAY 18, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : AIA COMPANY LIMITED  
**ADDRESS** : 181 SURAWONG ROAD SURYAWONG 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** : MAY 2, 2023  
**SAMPLING TIME** : 14:40 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : MAY 2, 2023  
**ANALYTICAL DATE** : MAY 2-12, 2023  
**REPORT NO.** : 2023-U036102  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AH733-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			แปลเก็บน้ำใส T23AH733-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	6.9 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.3	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.7	≤ 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 T23AH733-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	11,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	490	-	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.

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

LABORATORY SUPERVISOR

MAY 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.jll.com  
**SAMPLING SOURCE** : AIA EAST GATEWAY BANGNA-TRAD  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JUNE 2, 2023  
**SAMPLING TIME** : 09:40 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-12, 2023  
**REPORT NO.** : 2023-U046526  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK230-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ถังปรับสภาพน้ำเสีย T23AK230-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.2 (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	< 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)	24,000	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	3,400	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.

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

LABORATORY SUPERVISOR

JUNE 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** : JUNE 2, 2023  
**SAMPLING TIME** : 10:10 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-12, 2023  
**REPORT NO.** : 2023-U046527  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK230-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทสุดท้ายก่อน ระบายนลงสู่ท่อระบาย น้ำสาธารณะ T23AK230-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.3 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.0	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.6	≤ 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
			บอพักสุดท้ายก่อน ระบายนสูทอระบายน น้ำสาธารณะ T23AK230-0002		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	>160,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	>160,000	-	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

JUNE 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** : JUNE 2, 2023  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-12, 2023  
**REPORT NO.** : 2023-U046528  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK230-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอก.เก็บน้ำใช้ T23AK230-0003		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B)	8.3 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.2	≤ 20	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.5	≤ 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	< LOQ	≤ 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
			ปอเก็บน้ำใส T23AK230-0003		
MICROBIOLOGY					
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	92,000	-	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

JUNE 14, 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** : DECEMBER 13, 2022  
**SAMPLING TIME** : 09:40 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-19, 2022  
**REPORT NO.** : 2022-U103938  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ถังเก็บน้ำใช้ใต้ดิน T22AY829-0007		
APPARENT COLOUR °	Pt-Co	VISUAL COMPARISON METHOD (SM: 2120 B)	ND	≤ 15	5
ODOUR °	-	OBSERVATION METHOD	NONE	NONE	-
MICROBIOLOGY					
<i>E. coli</i> °	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/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

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. 2560 (2017).

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 29, 2022



## 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** : MARCH 1, 2023  
**SAMPLING TIME** : 15:35 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** :  
**ANALYZED BY** :  
**RECEIVED DATE** : MARCH 1, 2023  
**ANALYTICAL DATE** : MARCH 1-5, 2023  
**REPORT NO.** : 2023-U017394  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AD595-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ถึงเก็บน้ำใช้ใต้ดิน T23AD595-0004		
APPARENT COLOUR <sup>c</sup>	Pt-Co	VISUAL COMPARISON METHOD (SM: PART 2120 B)	ND	≤ 15	5
ODOUR <sup>c</sup>	-	OBSERVATION METHOD	NONE	NONE	-
MICROBIOLOGY					
<i>E. coli</i> <sup>a b</sup>	/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		

<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 : CRITERIA OF WATER SUPPLY QUALITY, NOTIFICATION OF THE METROPOLITAN WATERWORKS AUTHORITY, B.E. 2560 (2017).

ND : NON-DETECTABLE.

<sup>^</sup> : SAMPLING AT 16:15 HOUR ON MARCH 24, 2023, ANALYSIS NO. T23AF349-0001 (ANALYTICAL DATE : MARCH 24-28, 2023)

LABORATORY SUPERVISOR

APRIL 20, 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** : WATER SUPPLY  
**SAMPLING DATE** : JUNE 2, 2023  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-8, 2023  
**REPORT NO.** : 2023-U046529  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK230-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ถึงเก็บน้ำไว้ได้ดิน T23AK230-0004		
APPARENT COLOUR <sup>c</sup>	Pt-Co	VISUAL COMPARISON METHOD (SM: PART 2120 B)	ND	≤ 15	5
ODOUR <sup>c</sup>	-	OBSERVATION METHOD	NONE	NONE	-
MICROBIOLOGY					
<i>E. coli</i> <sup>b</sup>	/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		

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

JUNE 14, 2023



## 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 13, 2022  
**SAMPLING TIME** : 09:20 HOUR  
**SAMPLING METHOD \*** : GRAB  
**SAMPLING BY \*** :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-27, 2022  
**REPORT NO.** : 2022-U103930  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดที่นำใบผลิเข้ามาเดิม ในระบบ ชั้น 5 T22AY829-0004		
pH *	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.5 (24°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)	40,500	NOT DETECTED	-
TOTAL BACTERIA *	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	6.8x10 <sup>4</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR		

# : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)  
\* : 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 : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 29, 2022





## 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 13, 2022  
**SAMPLING TIME** : 09:15 HOUR  
**SAMPLING METHOD \*** : GRAB  
**SAMPLING BY \*** :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-27, 2022  
**REPORT NO.** : 2022-U103932  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			อ้างอิงรับน้ำ ชั้น 5 T22AY829-0005		
pH *	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.6 (24°C)	-	-
FREE CHLORINE *	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
Legionella spp. #	CFU/L	ISO 11731:2017-05 (E)	53,000	NOT DETECTED	-
TOTAL BACTERIA *	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	5.9x10 <sup>4</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -		

# : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 29, 2022



## 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 13, 2022  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD \*** : GRAB  
**SAMPLING BY \*** :   
**ANALYZED BY** :   
**RECEIVED DATE** : DECEMBER 13, 2022  
**ANALYTICAL DATE** : DECEMBER 13-27, 2022  
**REPORT NO.** : 2022-U103935  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T22AY829-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ห่อป้าทั้งจากหอผ้ง เป็น ชั้น 5 T22AY829-0006		
pH *	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.6 (24°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)	100,500	NOT DETECTED	-
TOTAL BACTERIA *	CFU/mL	STANDARD PLATE COUNT (SM: 9215 B)	3.6x10 <sup>4</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -		

# : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 29, 2022



## 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** : JUNE 2, 2023  
**SAMPLING TIME** : 09:20 HOUR  
**SAMPLING METHOD \*** : GRAB  
**SAMPLING BY \*** :  
**ANALYZED BY** :  
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-13, 2023  
**REPORT NO.** : 2023-U047990  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK240-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดที่น้ำไหลเข้ามาเดิม ในระบบ ชั้น 5 T23AK240-0001		
pH *	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.5 (34°C)	-	-
FREE CHLORINE *	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
MICROBIOLOGY					
Legionella spp. #	CFU/L	ISO 11731:2017-05 (E)	1,000	NOT DETECTED	-
TOTAL BACTERIA *	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	1.9x10 <sup>5</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

# : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)  
\* : 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 : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

JUNE 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** : COOLING WATER  
**SAMPLING DATE** : JUNE 2, 2023  
**SAMPLING TIME** : 09:10 HOUR  
**SAMPLING METHOD \*** : GRAB  
**SAMPLING BY \*** :  
**ANALYZED BY** :  
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-13, 2023  
**REPORT NO.** : 2023-U047991  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK240-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			อ้างอิงร่นน้ำ ชั้น 5 T23AK240-0002		
pH *	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.8 (32°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	-
TOTAL BACTERIA *	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	4.7x10 <sup>4</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -		

# : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)  
\* : 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 : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

JUNE 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** : COOLING WATER  
**SAMPLING DATE** : JUNE 2, 2023  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD \*** : GRAB  
**SAMPLING BY \*** :   
**ANALYZED BY** :   
**RECEIVED DATE** : JUNE 2, 2023  
**ANALYTICAL DATE** : JUNE 2-13, 2023  
**REPORT NO.** : 2023-U047992  
**WORK NO.** : 2022-009091  
**ANALYSIS NO.** : T23AK240-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			หอน้ำทิ้งจากหอผึ่งเย็น ชั้น 5 T23AK240-0003		
pH *	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.8 (32°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	-
TOTAL BACTERIA *	CFU/mL	STANDARD PLATE COUNT (SM: PART 9215 B)	6.1x10 <sup>4</sup>	-	1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -		

# : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)  
\* : 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 : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH (THAILAND), PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS, JANUARY 2001.

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

JUNE 16, 2023

