

ภาคผนวก ค  
รายงานผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม



รายงานผลการติดตามตรวจสอบคุณภาพน้ำทิ้ง  
เดือนมกราคม พ.ศ. 2567



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : ดิเอนโคพี พื้นที่ ปตท. รังสิต จังหวัตระยอง  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 09:10 HOUR  
**SAMPLING METHOD<sup>c</sup>** : GRAB  
**SAMPLING BY<sup>c</sup>** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JANUARY 19, 2024  
**ANALYTICAL DATE** : JANUARY 19-22, 2024  
**REPORT NO.** : 2024-U007579  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AB121-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY (ภายในโครงการ) T24AB121-0009		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	153	≤ 1,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

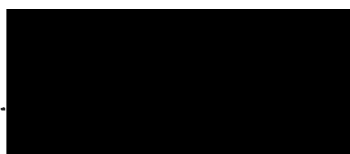
<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<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 : WATER SUPPLY STANDARDS, NOTIFICATION OF THE PROVINCIAL WATERWORKS AUTHORITY FOLLOW AS WORLD HEALTH ORGANIZATION (WHO) GUIDELINE ISSUE NO.4, A.D.2011; APPENDIX 1, A.D. 2017 (B.E. 2560).



JANUARY 30, 2024



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ENERGY COMPLEX COMPANY LIMITED	<b>RECEIVED DATE</b>	: JANUARY 19, 2024
<b>ADDRESS</b>	: 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900	<b>ANALYTICAL DATE</b>	: JANUARY 19-24, 2024
<b>CONTACT INFORMATION</b>	: TEL : 091 794 5792 e-mail : safety.encony@gmail.com	<b>REPORT NO.</b>	: 2024-U007545
<b>SAMPLING SOURCE</b>	: อาคาร A ดิเอนโคพี พื้นที่ ปตท. รังสิต จังหวัดระยอง	<b>WORK NO.</b>	: 2023-002256
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>ANALYSIS NO.</b>	: T24AB121-0001 - T24AB121-0002
<b>SAMPLING DATE</b>	: JANUARY 18, 2024		
<b>SAMPLING TIME</b>	: 1/		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY <sup>c</sup></b>	: MR SETTHAWUT EMKLINBUA		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:30 HOUR 1/ T24AB121-0001	2 08:20 HOUR 1/ T24AB121-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.5 (31°C)	7.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	17.5	3.5	≤ 40	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	34.2	6.5	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	454	461	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	9.5	5.9	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:30 HOUR 1/ T24AB121-0001	2 08:20 HOUR 1/ T24AB121-0002		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	160,000	7,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	54,000	4,900	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AB121-0002) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

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( )  
LABORATORY SUPERVISOR

JANUARY 30, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร B ดีเอนโคเน่ พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JANUARY 19, 2024  
**ANALYTICAL DATE** : JANUARY 19-24, 2024  
**REPORT NO.** : 2024-U007547  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AB121-0003 - T24AB121-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:35 HOUR 1/ T24AB121-0003	2 08:25 HOUR 1/ T24AB121-0004		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.3 (29°C)	7.2 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	96.2	3.5	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	34.4	5.0	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	404	558	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> -F)	1.7	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	61.5	9.7	≤ 40	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	6	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:35 HOUR 1/ T24AB121-0003	2 08:25 HOUR 1/ T24AB121-0004		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	4,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	4,900	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AB121-0004) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

JANUARY 30, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร C ดีเจนโคพี พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JANUARY 18, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JANUARY 19, 2024  
**ANALYTICAL DATE** : JANUARY 19-24, 2024  
**REPORT NO.** : 2024-U007548  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AB121-0005 - T24AB121-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:50 HOUR 1/ T24AB121-0005	2 08:45 HOUR 1/ T24AB121-0006		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.5 (28°C)	7.9 (27°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	91.0	6.0	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	16.9	7.6	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	310	360	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	0.57	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	38.5	12.2	≤ 40	15
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:50 HOUR 1/ T24AB121-0005	2 08:45 HOUR 1/ T24AB121-0006		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	13,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	2,200	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
SEDIMENT			BROWN	BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AB121-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

(MR)

LABORATORY SUPERVISOR

JANUARY 30, 2024

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ENERGY COMPLEX COMPANY LIMITED	<b>RECEIVED DATE</b>	: JANUARY 19, 2024
<b>ADDRESS</b>	: 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900	<b>ANALYTICAL DATE</b>	: JANUARY 19-24, 2024
<b>CONTACT INFORMATION</b>	: TEL : 091 794 5792 e-mail : safety.encony@gmail.com	<b>REPORT NO.</b>	: 2024-U007578
<b>SAMPLING SOURCE</b>	: อาคาร D ดีเอนโคเน่ ฟันที ปตท. วังจันทร์ จังหวัดระยอง	<b>WORK NO.</b>	: 2023-002256
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>ANALYSIS NO.</b>	: T24AB121-0007 - T24AB121-0008
<b>SAMPLING DATE</b>	: JANUARY 18, 2024		
<b>SAMPLING TIME</b>	: 1/		
<b>SAMPLING METHOD °</b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY °</b>	: MR SETTHAWUT EMKLINBUA		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:05 HOUR 1/ T24AB121-0007	2 09:00 HOUR 1/ T24AB121-0008		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (28°C)	7.6 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	130	ND	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	33.2	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	440	186	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.1	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	44.3	6.6	≤ 40	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	4	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:05 HOUR 1/ T24AB121-0007	2 09:00 HOUR 1/ T24AB121-0008		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	33	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	23	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

(MRS. TATTA BUTHANONGSA)  
LABORATORY SUPERVISOR

JANUARY 30, 2024

รายงานผลการติดตามตรวจสอบคุณภาพน้ำทิ้ง  
เดือนกุมภาพันธ์ พ.ศ. 2567



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : ดิเอนโคพี พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 10:15 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-16, 2024  
**ISSUE DATE** : FEBRUARY 21, 2024  
**REPORT NO.** : 2024-U014816  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AC841-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY (ภายในโครงการ) T24AC841-0009		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	282	≤ 1,000	25
<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 : WATER SUPPLY STANDARDS, NOTIFICATION OF THE PROVINCIAL WATERWORKS AUTHORITY FOLLOW AS WORLD HEALTH ORGANIZATION (WHO) GUIDELINE ISSUE NO.4, A.D.2011; APPENDIX 1, A.D. 2017 (B.E. 2560).

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(MISS TIRAT BOYTHANONGWONG)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร A ดิเอนโคพี พื้นที่ ปตท. วังจันทร์ จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-20, 2024  
**ISSUE DATE** : FEBRUARY 21, 2024  
**REPORT NO.** : 2024-U014859  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AC841-0001, T24AC841-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:20 HOUR 1/ T24AC841-0001	2 09:00 HOUR 1/ T24AC841-0005		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H* B AND 1060 B	7.6 (29°C)	7.4 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	10.4	6.5	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	9.8	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	475	435	500*	25
SETTLABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	< 0.1	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	6.6	5.7	≤ 40	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:20 HOUR 1/ T24AC841-0001	2 09:00 HOUR 1/ T24AC841-0005		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	54,000	4,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	35,000	1,700	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AC841-0005) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

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(N  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร B ดิเอนโคดี พื้นที่ ปลดท. รังจันทร จังหรัระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-20, 2024  
**ISSUE DATE** : FEBRUARY 21, 2024  
**REPORT NO.** : 2024-U014862  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AC841-0002, T24AC841-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:30 HOUR 1/ T24AC841-0002	2 09:10 HOUR 1/ T24AC841-0006		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (29°C)	7.1 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	112	4.4	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	38.0	10.9	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	479	520	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.2	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	48.9	6.9	≤ 40	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	ND	≤ 20	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:30 HOUR 1/ T24AC841-0002	2 09:10 HOUR 1/ T24AC841-0006		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	22,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	7,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AC841-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร C ดิเอนโคพี พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-20, 2024  
**ISSUE DATE** : FEBRUARY 21, 2024  
**REPORT NO.** : 2024-U014863  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AC841-0003, T24AC841-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:50 HOUR 1/ T24AC841-0003	2 09:40 HOUR 1/ T24AC841-0007		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (28°C)	7.6 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	156	4.1	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	33.4	24.2	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	482	444	500*	25
SETTLEABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	0.2	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	1.8	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	85.1	< LOQ	≤ 40	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:50 HOUR 1/ T24AC841-0003	2 09:40 HOUR 1/ T24AC841-0007		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	>160,000	2,100	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	>160,000	1,700	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AC841-0007) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

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

(MRS PIYAPAT SUTTAMANTWONG)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร D ดีเอนโคพี พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-20, 2024  
**ISSUE DATE** : FEBRUARY 21, 2024  
**REPORT NO.** : 2024-U014869  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AC841-0004, T24AC841-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:00 HOUR 1/ T24AC841-0004	2 10:10 HOUR 1/ T24AC841-0008		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.8 (28°C)	7.8 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	28.9	4.4	≤ 40	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	16.5	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	460	462	500*	25
SETTLABLE SOLIDS °	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE °	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> -F)	0.65	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	41.8	10.5	≤ 40	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:00 HOUR 1/ T24AC841-0004	2 10:10 HOUR 1/ T24AC841-0008		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	4,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	700	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AC841-0008) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

(MRS PIYAPAT SUT TAMANUTWONG)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : BLANK (EFFLUENT) **RECEIVED DATE** : FEBRUARY 13, 2024  
**SAMPLING DATE** : - **ANALYTICAL DATE** : FEBRUARY 13-20, 2024  
**SAMPLING TIME** : - **ISSUE DATE** : FEBRUARY 23, 2024  
**SAMPLING METHOD** : - **REPORT NO.** : 2024-U016000  
**SAMPLING BY** : - **WORK NO.** : 2023-002256  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM **ANALYSIS NO.** : 2024-FB0123, 2024-TB0123

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2024-FB0123	2 2024-TB0123	
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	ND	ND	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	ND	ND	25
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> -F)	< 0.50	< 0.50	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	ND	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	3
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.8	< 1.8	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.8	< 1.8	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	COLOURLESS/CLEAR	

**IN-HOUSE** : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**RESULT 1** : FIELD BLANK  
**RESULT 2** : TRIP BLANK  
**ND** : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024



รายงานผลการติดตามตรวจสอบคุณภาพน้ำทิ้ง  
เดือนมีนาคม พ.ศ. 2567



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : BLANK (EFFLUENT) **RECEIVED DATE** : MARCH 16, 2024  
**SAMPLING DATE** : - **ANALYTICAL DATE** : MARCH 16-22, 2024  
**SAMPLING TIME** : - **ISSUE DATE** : MARCH 25, 2024  
**SAMPLING METHOD** : - **REPORT NO.** : 2024-U024621  
**SAMPLING BY** : - **WORK NO.** : 2023-002256  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM **ANALYSIS NO.** : 2024-FB0243, 2024-TB0235

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2024-FB0243	2 2024-TB0235	
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	< 2.0	< 2.0	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	ND	ND	25
SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)	< 0.50	< 0.50	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	ND	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	3
<b>MICROBIOLOGY</b>					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.8	< 1.8	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.8	< 1.8	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	COLOURLESS/CLEAR -	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
RESULT 1 : FIELD BLANK  
RESULT 2 : TRIP BLANK  
ND : NON-DETECTABLE.

.....  
(MRS. JIAPAT SUTTHAMONGTONG)  
LABORATORY SUPERVISOR

MARCH 26, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร A ดิเอนโคน์ ฟันที ปดท. รังจันทร จักรวรรดิระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MARCH 16, 2024  
**ANALYTICAL DATE** : MARCH 16-22, 2024  
**ISSUE DATE** : MARCH 25, 2024  
**REPORT NO.** : 2024-U024935  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF514-0001, T24AF514-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:30 HOUR 1/ T24AF514-0001	2 08:20 HOUR 1/ T24AF514-0005		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.6 (32°C)	7.7 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	9.1	4.8	≤ 40	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	433	443	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	18.7	14.0	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	3	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:30 HOUR 1/ T24AF514-0001	2 08:20 HOUR 1/ T24AF514-0005		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	54,000	24,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	54,000	24,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

(MRS PIPAT SUTTHAMONWONG)  
LABORATORY SUPERVISOR

MARCH 26, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร B ดีเอนโคเน ฟันที่ ปตท. วัจันทร จัังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MARCH 16, 2024  
**ANALYTICAL DATE** : MARCH 16-22, 2024  
**ISSUE DATE** : MARCH 25, 2024  
**REPORT NO.** : 2024-U024937  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF514-0002, T24AF514-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:50 HOUR 1/ T24AF514-0002	2 08:40 HOUR 1/ T24AF514-0006		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.1 (30°C)	7.4 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	53.8	6.3	≤ 40	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	35.4	10.8	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	292	431	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> -F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	45.2	13.6	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	9	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 08:50 HOUR 1/ T24AF514-0002	2 08:40 HOUR 1/ T24AF514-0006		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	13,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	7,900	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/TURBID		
SEDIMENT			BROWN	BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AF514-0006) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

MARCH 26, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร C ดิเอนโคเ็น ฟเ็นที่ ปดท. รเังจันทร จังหวัตรชยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MARCH 16, 2024  
**ANALYTICAL DATE** : MARCH 16-22, 2024  
**ISSUE DATE** : MARCH 25, 2024  
**REPORT NO.** : 2024-U024938  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF514-0003, T24AF514-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:10 HOUR 1/ T24AF514-0003	2 09:00 HOUR 1/ T24AF514-0007		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (29°C)	7.5 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	129	3.4	≤ 40	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	25.1	10.4	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	525	462	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	2.9	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	96.6	5.4	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	7	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:10 HOUR 1/ T24AF514-0003	2 09:00 HOUR 1/ T24AF514-0007		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	160,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	1,100	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AF514-0007) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

MARCH 26, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร D ดีเอนโคพี พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MARCH 16, 2024  
**ANALYTICAL DATE** : MARCH 16-22, 2024  
**ISSUE DATE** : MARCH 25, 2024  
**REPORT NO.** : 2024-U024939  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF514-0004, T24AF514-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:20 HOUR 1/ T24AF514-0004	2 09:15 HOUR 1/ T24AF514-0008		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	8.0 (30°C)	7.8 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	86.1	5.3	≤ 40	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	39.3	40.4	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	474	492	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	0.5	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	92.5	19.9	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	12	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:20 HOUR 1/ T24AF514-0004	2 09:15 HOUR 1/ T24AF514-0008		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	>160,000	13,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	>160,000	4,900	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

BIOCHEMICAL OXYGEN DEMAND (T24AF514-0008) : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

MARCH 26, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : ดิเอนโคซี่ ฟิ่นที ปดท. รังจันทร จังหวัตรทยอง  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : MARCH 15, 2024  
**SAMPLING TIME** : 09:05 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MARCH 16, 2024  
**ANALYTICAL DATE** : MARCH 16-20, 2024  
**ISSUE DATE** : MARCH 25, 2024  
**REPORT NO.** : 2024-U024940  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF514-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY (ภายในโครงการ) T24AF514-0009		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	188	≤ 1,000	25
<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 : WATER SUPPLY STANDARDS, NOTIFICATION OF THE PROVINCIAL WATERWORKS AUTHORITY FOLLOW AS WORLD HEALTH ORGANIZATION (WHO) GUIDELINE ISSUE NO.4, A.D.2011; APPENDIX 1, A.D. 2017 (B.E. 2560).

(MRS PIYAPAT SUTTAMANTWONG)  
LABORATORY SUPERVISOR

MARCH 26, 2024



รายงานผลการติดตามตรวจสอบคุณภาพอากาศในบรรยากาศโดยทั่วไป



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ENERGY COMPLEX COMPANY LIMITED	<b>RECEIVED DATE</b>	: MARCH 12, 2024
<b>ADDRESS</b>	: 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900	<b>ANALYTICAL DATE</b>	: MARCH 12-18, 2024
<b>CONTACT INFORMATION</b>	: TEL : 091 794 5792 e-mail : safety.encony@gmail.com	<b>ISSUE DATE</b>	: MARCH 21, 2024
<b>SAMPLING SOURCE</b>	: ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี	<b>REPORT NO.</b>	: 2024-U023124
<b>SAMPLE TYPE</b>	: AMBIENT	<b>WORK NO.</b>	: 2023-002256
<b>SAMPLING DATE</b>	: *	<b>ANALYSIS NO.</b>	: T24AF106-0001
<b>SAMPLING TIME</b>	: *		
<b>SAMPLING BY</b>	: MR NATTHAPONG CHAKUNTHOD		
<b>ANALYZED BY</b>	: MISS JETJARIN TUMSA-AT		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ภายในพื้นที่โครงการ ด้านทิศตะวันออก ติดกับสถาบันวิทยสิริเมธี T24AF106-0001
TOTAL SUSPENDED PARTICULATE MATTER	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.054
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.033
SAMPLE CONDITION			COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.

PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.

\* : SAMPLING FROM 10:00 HOUR ON MARCH 11, 2024 TO 10:00 HOUR ON MARCH 12, 2024.

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

MARCH 21, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**MEASURING PLACE** : ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MARCH 11-12, 2024  
**MEASURING DATE** : MARCH 11-12, 2024 **ANALYTICAL DATE** : MARCH 11-12, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : MARCH 15, 2024  
**MEASURING METHOD** : NON-DISPERSIVE INFRARED DETECTION **REPORT NO.** : 2024-U021533  
**MEASURED BY** : MR NATTHAPONG CHAKUNTHOD **WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF106-0001

TIME *	RESULT (ppm)
	CARBON MONOXIDE
	ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี
	MARCH 11-12, 2024 T24AF106-0001
10:00-11:00 HOUR	1.15
11:00-12:00 HOUR	1.06
12:00-13:00 HOUR	0.97
13:00-14:00 HOUR	1.00
14:00-15:00 HOUR	1.00
15:00-16:00 HOUR	1.07
16:00-17:00 HOUR	1.16
17:00-18:00 HOUR	1.22
18:00-19:00 HOUR	1.27
19:00-20:00 HOUR	1.25
20:00-21:00 HOUR	1.23
21:00-22:00 HOUR	1.21
22:00-23:00 HOUR	1.19
23:00-00:00 HOUR	1.18
00:00-01:00 HOUR	1.16
01:00-02:00 HOUR	1.12
02:00-03:00 HOUR	1.09
03:00-04:00 HOUR	1.09
04:00-05:00 HOUR	1.11
05:00-06:00 HOUR	1.19
06:00-07:00 HOUR	1.27
07:00-08:00 HOUR	1.34
08:00-09:00 HOUR	1.35
09:00-10:00 HOUR	1.30

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

MARCH 15, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**MEASURING PLACE** : ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MARCH 11-12, 2024  
**MEASURING DATE** : MARCH 11-12, 2024 **ANALYTICAL DATE** : MARCH 11-12, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : MARCH 15, 2024  
**MEASURING METHOD** : CHEMILUMINESCENCE **REPORT NO.** : 2024-U021534  
**MEASURED BY** : MR NATTHAPONG CHAKUNTHOD **WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF106-0001

TIME *	RESULT (ppm)
	NITROGEN DIOXIDE
	ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี
	MARCH 11-12, 2024 T24AF106-0001
10:00-11:00 HOUR	0.0181
11:00-12:00 HOUR	0.0163
12:00-13:00 HOUR	0.0150
13:00-14:00 HOUR	0.0147
14:00-15:00 HOUR	0.0155
15:00-16:00 HOUR	0.0165
16:00-17:00 HOUR	0.0177
17:00-18:00 HOUR	0.0188
18:00-19:00 HOUR	0.0198
19:00-20:00 HOUR	0.0202
20:00-21:00 HOUR	0.0191
21:00-22:00 HOUR	0.0197
22:00-23:00 HOUR	0.0191
23:00-00:00 HOUR	0.0187
00:00-01:00 HOUR	0.0185
01:00-02:00 HOUR	0.0185
02:00-03:00 HOUR	0.0181
03:00-04:00 HOUR	0.0177
04:00-05:00 HOUR	0.0170
05:00-06:00 HOUR	0.0172
06:00-07:00 HOUR	0.0146
07:00-08:00 HOUR	0.0181
08:00-09:00 HOUR	0.0189
09:00-10:00 HOUR	0.0192

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

MARCH 15, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**MEASURING PLACE** : ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MARCH 11-12, 2024  
**MEASURING DATE** : MARCH 11-12, 2024 **ANALYTICAL DATE** : MARCH 11-12, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : MARCH 15, 2024  
**MEASURING METHOD** : UV FLUORESCENCE **REPORT NO.** : 2024-U021535  
**MEASURED BY** : MR NATTHAPONG CHAKUNTHOD **WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AF106-0001

TIME *	RESULT (ppm)
	SULPHUR DIOXIDE
	ภายในพื้นที่โครงการ ด้านทิศตะวันออกติดกับสถาบันวิทยสิริเมธี
	MARCH 11-12, 2024 T24AF106-0001
10:00-11:00 HOUR	0.0027
11:00-12:00 HOUR	0.0025
12:00-13:00 HOUR	0.0026
13:00-14:00 HOUR	0.0025
14:00-15:00 HOUR	0.0027
15:00-16:00 HOUR	0.0026
16:00-17:00 HOUR	0.0030
17:00-18:00 HOUR	0.0029
18:00-19:00 HOUR	0.0028
19:00-20:00 HOUR	0.0027
20:00-21:00 HOUR	0.0029
21:00-22:00 HOUR	0.0031
22:00-23:00 HOUR	0.0030
23:00-00:00 HOUR	0.0029
00:00-01:00 HOUR	0.0030
01:00-02:00 HOUR	0.0029
02:00-03:00 HOUR	0.0030
03:00-04:00 HOUR	0.0031
04:00-05:00 HOUR	0.0032
05:00-06:00 HOUR	0.0031
06:00-07:00 HOUR	0.0030
07:00-08:00 HOUR	0.0029
08:00-09:00 HOUR	0.0030
09:00-10:00 HOUR	0.0027
AVERAGE 24 HOUR	0.0029

(MR SILA BANJONGJAIROK)  
LABORATORY SUPERVISOR

MARCH 15, 2024



รายงานผลการติดตามตรวจสอบคุณภาพน้ำทิ้ง  
เดือนเมษายน พ.ศ. 2567



## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร A ดิเอนโคปี พื้นที่ ปตท. รังสิต จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : APRIL 18, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : APRIL 19, 2024  
**ANALYTICAL DATE** : APRIL 19-26, 2024  
**ISSUE DATE** : APRIL 29, 2024  
**REPORT NO.** : 2024-U035761  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AI120-0001, T24AI120-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:50 HOUR 1/ T24AI120-0001	2 10:00 HOUR 1/ T24AI120-0005		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (33°C)	7.4 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	7.0	< 2.0	≤ 40	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	425	419	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> -F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	23.5	< LOQ	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	≤ 20	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 09:50 HOUR 1/ T24AI120-0001	2 10:00 HOUR 1/ T24AI120-0005		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	3,300	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	35,000	1,700	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/CLEAR	YELLOW/CLEAR		
SEDIMENT			BROWN	BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS C, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

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

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 29, 2024

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ENERGY COMPLEX COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19, 2024
<b>ADDRESS</b>	: 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2024
<b>CONTACT INFORMATION</b>	: TEL : 091 794 5792 e-mail : safety.encony@gmail.com	<b>ISSUE DATE</b>	: APRIL 29, 2024
<b>SAMPLING SOURCE</b>	: อาคาร B ดิเอนโคซี่ พื้นที่ ปตท. วังจันทร์ จังหวัดระยอง	<b>REPORT NO.</b>	: 2024-U035762
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>WORK NO.</b>	: 2023-002256
<b>SAMPLING DATE</b>	: APRIL 18, 2024	<b>ANALYSIS NO.</b>	: T24AI120-0002, T24AI120-0006
<b>SAMPLING TIME</b>	: 1/		
<b>SAMPLING METHOD</b>	: GRAB, GRAB AND STERILE TECHNIQUE		
<b>SAMPLING BY</b>	: MR PANUWAT PUMITINSEE		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:05 HOUR 1/ T24AI120-0002	2 09:55 HOUR 1/ T24AI120-0006		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.2 (3°C)	7.5 (3°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	95.2	22	≤ 40	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	220	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	475	492	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> -F)	2.9	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	70.4	9.2	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:05 HOUR 1/ T24AI120-0002	2 09:55 HOUR 1/ T24AI120-0006		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	22,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	22,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
SEDIMENT			BROWN	BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 29, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร C ดิเอนโคซี่ พื้นที่ ปลดท. วั่งจันทร จัังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : APRIL 18, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : APRIL 19, 2024  
**ANALYTICAL DATE** : APRIL 19-26, 2024  
**ISSUE DATE** : APRIL 29, 2024  
**REPORT NO.** : 2024-U035763  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AI120-0003, T24AI120-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:20 HOUR 1/ T24AI120-0003	2 10:15 HOUR 1/ T24AI120-0007		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.4 (30°C)	7.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	96.3	< 2.0	≤ 40	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	29.2	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	474	532	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.2	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	96.9	< LOQ	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	7	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:20 HOUR 1/ T24A1120-0003	2 10:15 HOUR 1/ T24A1120-0007		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	160,000	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	28,000	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	YELLOW/CLEAR BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS C, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL122, PART 125 D, DATED DECEMBER 29, 2005.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

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

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 29, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : อาคาร D ดิเอนโคพี พื้นที่ ปตท. วังจันทร์ จังหวัดระยอง  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : APRIL 18, 2024  
**SAMPLING TIME** : 1/  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : APRIL 19, 2024  
**ANALYTICAL DATE** : APRIL 19-26, 2024  
**ISSUE DATE** : APRIL 29, 2024  
**REPORT NO.** : 2024-U035764  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AI120-0004, T24AI120-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:35 HOUR 1/ T24AI120-0004	2 10:28 HOUR 1/ T24AI120-0008		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.5 (30°C)	7.4 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	27.2	< 2.0	≤ 40	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	14.2	13.1	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	458	447	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> -F)	< 0.50	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	50.1	< LOQ	≤ 40	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	3	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 10:35 HOUR 1/ T24AI120-0004	2 10:28 HOUR 1/ T24AI120-0008		
MICROBIOLOGY						
COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	7,900	-	1.8
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	7,900	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
SEDIMENT			BROWN	BROWN		

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

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

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

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

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

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

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

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 29, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : ตึเอนโคเน่ ฟิ้นที่ ปดท. รังจันทร จ้งหวัดระยอง  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : APRIL 18, 2024  
**SAMPLING TIME** : 10:25 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR PANUWAT PUMITINSEE  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : APRIL 19, 2024  
**ANALYTICAL DATE** : APRIL 19-24, 2024  
**ISSUE DATE** : APRIL 29, 2024  
**REPORT NO.** : 2024-U035765  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : T24AI120-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY (ภายในโครงการ) T24AI120-0009		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	293	≤ 1,000	25
<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 : WATER SUPPLY STANDARDS, NOTIFICATION OF THE PROVINCIAL WATERWORKS AUTHORITY FOLLOW AS WORLD HEALTH ORGANIZATION (WHO) GUIDELINE ISSUE NO.4, A.D.2011; APPENDIX 1, A.D. 2017 (B.E. 2560).

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 29, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : ENERGY COMPLEX COMPANY LIMITED  
**ADDRESS** : 555/1 VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 091 794 5792 e-mail : safety.encony@gmail.com  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : BLANK (EFFLUENT)  
**SAMPLING DATE** : -  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : -  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : APRIL 19, 2024  
**ANALYTICAL DATE** : APRIL 19-26, 2024  
**ISSUE DATE** : APRIL 29, 2024  
**REPORT NO.** : 2024-U035766  
**WORK NO.** : 2023-002256  
**ANALYSIS NO.** : 2024-FB0377, 2024-TB0366

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2024-FB0377	2 2024-TB0366	
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	< 2.0	< 2.0	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	ND	ND	25
SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	< 0.1	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2</sup> - F)	< 0.50	< 0.50	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	ND	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	ND	3
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 1.8	< 1.8	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.8	< 1.8	1.8
SAMPLE CONDITION			COLOURLESS/CLEAR	COLOURLESS/CLEAR	
WATER'S COLOUR/TURBID SEDIMENT			-	-	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
RESULT 1 : FIELD BLANK  
RESULT 2 : TRIP BLANK  
ND : NON-DETECTABLE.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 29, 2024

