

ภาคผนวก



ภาคผนวก ก

ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม



ภาคผนวก ก-1

ผลการติดตามตรวจสอบคุณภาพทิ้งจากระบบบำบัดน้ำเสีย



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 28, 2024
SAMPLING TIME : 10:10 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ACHITA SAENGJAN
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 28, 2024
ANALYTICAL DATE : FEBRUARY 28 - MARCH 6, 2024
ISSUE DATE : MARCH 8, 2024
REPORT NO. : 2024-U019745
WORK NO. : 2024-001325
ANALYSIS NO. : T24AE069-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND API T24AE069-0001	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.8 (29°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	972	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 11, 2024



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 28, 2024
SAMPLING TIME : 10:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ACHITA SAENGJAN
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 28, 2024
ANALYTICAL DATE : FEBRUARY 28 - MARCH 6, 2024
ISSUE DATE : MARCH 8, 2024
REPORT NO. : 2024-U019746
WORK NO. : 2024-001325
ANALYSIS NO. : T24AE069-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND A T24AE069-0002	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.0 (29°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	2,600	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 11, 2024



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 28, 2024
SAMPLING TIME : 10:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ACHITA SAENGJAN
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 28, 2024
ANALYTICAL DATE : FEBRUARY 28 - MARCH 6, 2024
ISSUE DATE : MARCH 8, 2024
REPORT NO. : 2024-U019747
WORK NO. : 2024-001325
ANALYSIS NO. : T24AE069-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND D T24AE069-0003	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.8 (29°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	1,411	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 11, 2024



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 28, 2024
SAMPLING TIME : 13:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SOMCHART UTHUMRAT
ANALYZED BY : MISS CHANAPHA MAKHAMART
RECEIVED DATE : MAY 28, 2024
ANALYTICAL DATE : MAY 28 - JUNE 3, 2024
ISSUE DATE : JUNE 7, 2024
REPORT NO. : 2024-U049056
WORK NO. : 2024-001325
ANALYSIS NO. : T24AL392-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND API T24AL392-0001	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.2 (34°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.0	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	598	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.
ND : NON-DETECTABLE.


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(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM
SAMPLE TYPE : EFFLUENT **RECEIVED DATE** : MAY 28, 2024
SAMPLING DATE : MAY 28, 2024 **ANALYTICAL DATE** : MAY 28 - JUNE 3, 2024
SAMPLING TIME : 13:30 HOUR **ISSUE DATE** : JUNE 7, 2024
SAMPLING METHOD : GRAB **REPORT NO.** : 2024-U049057
SAMPLING BY : MR SOMCHART UTHUMRAT **WORK NO.** : 2024-001325
ANALYZED BY : MISS CHANAPHA MAKHAMART **ANALYSIS NO.** : T24AL392-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND A T24AL392-0002	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.4 (35°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	1,676	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.
ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED

ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310

CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th

SAMPLING SOURCE : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM

SAMPLE TYPE : EFFLUENT **RECEIVED DATE** : MAY 28, 2024

SAMPLING DATE : MAY 28, 2024 **ANALYTICAL DATE** : MAY 28 - JUNE 3, 2024

SAMPLING TIME : 13:15 HOUR **ISSUE DATE** : JUNE 7, 2024

SAMPLING METHOD : GRAB **REPORT NO.** : 2024-U049058

SAMPLING BY : MR SOMCHART UTHUMRAT **WORK NO.** : 2024-001325

ANALYZED BY : MISS CHANAPHA MAKHAMART **ANALYSIS NO.** : T24AL392-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND D T24AL392-0003	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.4 (34°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.3	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	600	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

ND : NON-DETECTABLE.



(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ภาคผนวก ก-2

ผลการติดตามตรวจสอบคุณภาพน้ำผิวดิน



ANALYSIS REPORT

CUSTOMER NAME	: PTG ENERGY PUBLIC COMPANY LIMITED	RECEIVED DATE	: FEBRUARY 28, 2024
ADDRESS	: 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310	ANALYTICAL DATE	: FEBRUARY 28 - MARCH 6, 2024
CONTACT INFORMATION	: TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th	ISSUE DATE	: MARCH 8, 2024
SAMPLING SOURCE	: MAE KLONG RIVER (NORTH)	REPORT NO.	: 2024-U019748
SAMPLE TYPE	: SURFACE WATER	WORK NO.	: 2024-001325
SAMPLING DATE	: FEBRUARY 28, 2024	ANALYSIS NO.	: T24AE071-0001
SAMPLING TIME	: 11:30 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR ACHITA SAENGJAN		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T24AE071-0001	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.0 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	2.5	1.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	92.1	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	51.5	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	24,060	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 11, 2024



ANALYSIS REPORT

CUSTOMER NAME	: PTG ENERGY PUBLIC COMPANY LIMITED	RECEIVED DATE	: FEBRUARY 28, 2024
ADDRESS	: 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310	ANALYTICAL DATE	: FEBRUARY 28 - MARCH 6, 2024
CONTACT INFORMATION	: TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th	ISSUE DATE	: MARCH 8, 2024
SAMPLING SOURCE	: MAE KLONG RIVER (SOUTH)	REPORT NO.	: 2024-U019749
SAMPLE TYPE	: SURFACE WATER	WORK NO.	: 2024-001325
SAMPLING DATE	: FEBRUARY 28, 2024	ANALYSIS NO.	: T24AE071-0002
SAMPLING TIME	: 11:00 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR ACHITA SAENGJAN		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T24AE071-0002	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.9 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	2.0	1.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	68.2	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	36.4	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	20,960	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.


.....
(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 11, 2024



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG RIVER (NORTH)
SAMPLE TYPE : SURFACE WATER
SAMPLING DATE : MAY 28, 2024
SAMPLING TIME : 09:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SOMCHART UTHUMRAT
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 28, 2024
ANALYTICAL DATE : MAY 28 - JUNE 3, 2024
ISSUE DATE : JUNE 7, 2024
REPORT NO. : 2024-U048964
WORK NO. : 2024-001325
ANALYSIS NO. : T24AL393-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T24AL393-0001	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.4 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	< 1.0	1.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	16.6	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,215	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
ND : NON-DETECTABLE.

Piyapat S.
.....
(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG RIVER (SOUTH)
SAMPLE TYPE : SURFACE WATER
SAMPLING DATE : MAY 28, 2024
SAMPLING TIME : 10:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SOMCHART UTHUMRAT
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 28, 2024
ANALYTICAL DATE : MAY 28 - JUNE 3, 2024
ISSUE DATE : JUNE 7, 2024
REPORT NO. : 2024-U048965
WORK NO. : 2024-001325
ANALYSIS NO. : T24AL393-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T24AL393-0002	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.5 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	< 1.0	1.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	18.5	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3,419	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ภาคผนวก ก-3

ผลการติดตามตรวจสอบปริมาณปิโตรเลียม
ไฮโดรคาร์บอนทั้งหมด



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG RIVER
SAMPLE TYPE : SEDIMENT
SAMPLING DATE : MAY 28, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : PETERSEN GRAB
SAMPLING BY : MR SOMCHART UTHUMRAT
ANALYZED BY : MR PRAPUNYUT PHAUGNANG
RECEIVED DATE : MAY 28, 2024
ANALYTICAL DATE : MAY 28 - JUNE 4, 2024
ISSUE DATE : JUNE 10, 2024
REPORT NO. : 2024-U049436
WORK NO. : 2024-001325
ANALYSIS NO. : T24AL391-0001, T24AL391-0004, T24AL391-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			1	2	3
			09:45 HOUR 1/ T24AL391-0001	09:50 HOUR 1/ T24AL391-0004	10:05 HOUR 1/ T24AL391-0007
TOTAL PETROLEUM HYDROCARBONS	mg/kg (dry weight)	SOXHLET EXTRACTION METHOD (SM: PART 5520 E AND PART 5520 F)	185	165	241
SAMPLE CONDITION			BLACK SOIL	BLACK SOIL	BLACK SOIL

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

RESULT 1 : แม่น้ำแม่กลอง (ทิศเหนือ) - ตะกอนดิน

RESULT 2 : แม่น้ำแม่กลอง - ตะกอนดิน

RESULT 3 : แม่น้ำแม่กลอง (ทิศใต้) - ตะกอนดิน

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG RIVER
SAMPLE TYPE : AQUATIC ANIMAL
SAMPLING DATE : MAY 28, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : MR SOMCHART UTHUMRAT
ANALYZED BY : MR PRAPUNYUT PHAUGNANG
RECEIVED DATE : MAY 28, 2024
ANALYTICAL DATE : MAY 28 - JUNE 4, 2024
ISSUE DATE : JUNE 10, 2024
REPORT NO. : 2024-U049437
WORK NO. : 2024-001325
ANALYSIS NO. : T24AL391-0002, T24AL391-0005, T24AL391-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			1 10:50 HOUR 1/ T24AL391-0002	2 10:30 HOUR 1/ T24AL391-0005	3 10:10 HOUR 1/ T24AL391-0008
TOTAL PETROLEUM HYDROCARBONS	mg/kg	SOXHLET EXTRACTION METHOD (SM: PART 5520 E AND PART 5520 F)	387	851	1,069
SAMPLE CONDITION			SHELL TISSUE	SHELL TISSUE	SHELL TISSUE

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

RESULT 1 : แม่น้ำแม่กลอง (ทิศเหนือ) - หอยกระปุก

RESULT 2 : แม่น้ำแม่กลอง - หอยกระปุก

RESULT 3 : แม่น้ำแม่กลอง (ทิศใต้) - หอยกระปุก

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : PTG ENERGY PUBLIC COMPANY LIMITED
ADDRESS : 90 CW TOWER A (33RD FLOOR) HUAI KHWANG HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 09 3469 6661 e-mail : supattarachai.ch@pt.co.th
SAMPLING SOURCE : MAE KLONG RIVER
SAMPLE TYPE : FISH
SAMPLING DATE : MAY 28, 2024
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : MR SOMCHART UTHUMRAT
ANALYZED BY : MR PRAPUNYUT PHAUGNANG
RECEIVED DATE : MAY 28, 2024
ANALYTICAL DATE : MAY 28 - JUNE 4, 2024
ISSUE DATE : JUNE 10, 2024
REPORT NO. : 2024-U049438
WORK NO. : 2024-001325
ANALYSIS NO. : T24AL391-0003, T24AL391-0006, T24AL391-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			1 11:00 HOUR 1/ T24AL391-0003	2 10:40 HOUR 1/ T24AL391-0006	3 10:20 HOUR 1/ T24AL391-0009
TOTAL PETROLEUM HYDROCARBONS	mg/kg	SOXHLET EXTRACTION METHOD (SM: PART 5520 E AND PART 5520 F)	503	360	430
SAMPLE CONDITION			FISH TISSUE	FISH TISSUE	FISH TISSUE

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

RESULT 1 : แม่น้ำแม่กลอง (ทิศเหนือ) - ปลากระบอก

RESULT 2 : แม่น้ำแม่กลอง - ปลากระบอก

RESULT 3 : แม่น้ำแม่กลอง (ทิศใต้) - ปลากระบอก

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

