

# ภาคผนวก

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ภาคผนวก ก  
ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

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## ภาคผนวก ก-1

ผลการติดตามตรวจสอบคุณภาพน้ำจากระบบบำบัดน้ำเสีย

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## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 19, 2022  
**SAMPLING TIME** : 14:05 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MR THAPAGORN PIMSORN  
**RECEIVED DATE** : AUGUST 19, 2022  
**ANALYTICAL DATE** : AUGUST 19-25, 2022  
**REPORT NO.** : 2022-U066607  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AQ336-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND API T22AQ336-0003	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.2 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	ND	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	990	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

.....  
[Signature]  
LABORATORY SUPERVISOR

AUGUST 29, 2022



## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 19, 2022  
**SAMPLING TIME** : 14:10 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MR THAPAGORN PIMSORN  
**RECEIVED DATE** : AUGUST 19, 2022  
**ANALYTICAL DATE** : AUGUST 19-25, 2022  
**REPORT NO.** : 2022-U066608  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AQ336-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND A T22AQ336-0004	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.0 (32°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	2.6	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	982	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

.....  
[REDACTED]  
LABORATORY SUPERVISOR

AUGUST 29, 2022



## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 19, 2022  
**SAMPLING TIME** : 14:00 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MR THAPAGORN PIMSORN  
**RECEIVED DATE** : AUGUST 19, 2022  
**ANALYTICAL DATE** : AUGUST 19-25, 2022  
**REPORT NO.** : 2022-U066609  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AQ336-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND D T22AQ336-0005	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.2 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	956	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

AUGUST 29, 2022



## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : NOVEMBER 30, 2022  
**SAMPLING TIME** : 10:20 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MR THAPAGORN PIMSORN

**RECEIVED DATE** : NOVEMBER 30, 2022  
**ANALYTICAL DATE** : NOVEMBER 30-DECEMBER 8, 2022  
**REPORT NO.** : 2022-U097947  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AX864-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND API T22AX864-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H+ B)	7.8 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	1,100	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN	

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

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

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

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 14, 2022





## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : NOVEMBER 30, 2022  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MR THAPAGORN PIMSORN

**RECEIVED DATE** : NOVEMBER 30, 2022  
**ANALYTICAL DATE** : NOVEMBER 30-DECEMBER 8, 2022  
**REPORT NO.** : 2022-U097948  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AX864-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND A T22AX864-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.9 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	ND	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	1,270	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/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

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 14, 2022





## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG PETROLEUM TERMINAL SAMUT SONGKHRAM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : NOVEMBER 30, 2022  
**SAMPLING TIME** : 10:10 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MR THAPAGORN PIMSORN

**RECEIVED DATE** : NOVEMBER 30, 2022  
**ANALYTICAL DATE** : NOVEMBER 30-DECEMBER 8, 2022  
**REPORT NO.** : 2022-U097949  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AX864-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			POND D T22AX864-0003	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.2 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	1,020	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN	

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

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

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

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 14, 2022



## ภาคผนวก ก-2

### ผลการติดตามตรวจสอบคุณภาพน้ำในแม่น้ำแม่กลอง

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## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG RIVER (NORTH)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : AUGUST 19, 2022  
**SAMPLING TIME** : 13:00 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MISS AMONRAT PUTTALEE  
**RECEIVED DATE** : AUGUST 19, 2022  
**ANALYTICAL DATE** : AUGUST 19-25, 2022  
**REPORT NO.** : 2022-U066605  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AQ336-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T22AQ336-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.9 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	1.8	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	11.8	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	1,330	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

.. [REDACTED] ..

LABORATORY SUPERVISOR

AUGUST 29, 2022



## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG RIVER (SOUTH)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : AUGUST 19, 2022  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MISS AMONRAT PUTTALEE  
**RECEIVED DATE** : AUGUST 19, 2022  
**ANALYTICAL DATE** : AUGUST 19-25, 2022  
**REPORT NO.** : 2022-U066606  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AQ336-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T22AQ336-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.0 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	1.0	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	ND	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	13.7	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	464	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

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

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

ND : NON-DETECTABLE.

.....  
[Signature]  
LABORATORY SUPERVISOR

AUGUST 29, 2022



## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG RIVER (NORTH)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : NOVEMBER 30, 2022  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MISS AMONRAT PUTTALEE

**RECEIVED DATE** : NOVEMBER 30, 2022  
**ANALYTICAL DATE** : NOVEMBER 30-DECEMBER 8, 2022  
**REPORT NO.** : 2022-U097945  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AX863-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T22AX863-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.8 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	2.1	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	58.2	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	18.5	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	13,520	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

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

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

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

ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

DECEMBER 14, 2022



## 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 : 08 0704 1457 e-mail : rattanawadee.ke@pt.co.th  
**SAMPLING SOURCE** : MAE KLONG RIVER (SOUTH)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : NOVEMBER 30, 2022  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR PORAWORN BUNNAG  
**ANALYZED BY** : MISS AMONRAT PUTTALEE

**RECEIVED DATE** : NOVEMBER 30, 2022  
**ANALYTICAL DATE** : NOVEMBER 30-DECEMBER 8, 2022  
**REPORT NO.** : 2022-U097946  
**WORK NO.** : 2022-001034  
**ANALYSIS NO.** : T22AX863-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SURFACE WATER T22AX863-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H+ B)	7.9 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	2.2	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	48.8	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	18.2	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	18,360	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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

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

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

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

ND : NON-DETECTABLE.

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[REDACTED]  
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LABORATORY SUPERVISOR

DECEMBER 14, 2022

