

ภาคผนวก ง

ผลตรวจวิเคราะห์คุณภาพน้ำ

ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร A,B,C (จุดที่ 1 ตัดริมคลอง)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : AUGUST 11, 2022
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 11, 2022
ANALYTICAL DATE : AUGUST 11-19, 2022
REPORT NO. : 2022-U065065
WORK NO. : 2022-000950
ANALYSIS NO. : T22AP868-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AP868-0001 | | |
| pH ^a | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.2 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 6.1 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 16.9 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 1,200 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 7.2 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 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

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

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 24, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร A, B, C (จุดที่ 2 ติดเฟส 1)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : AUGUST 11, 2022
SAMPLING TIME : 13:25 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR. WEERAYUT MOKKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 11, 2022
ANALYTICAL DATE : AUGUST 11-19, 2022
REPORT NO. : 2022-U065066
WORK NO. : 2022-000950
ANALYSIS NO. : T22AP868-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AP868-0002 | | |
| pH ^a | - | ELECTROMETRIC METHOD AT SITE (SM 4500-H ⁺ B) | 6.9 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B) | 9.2 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 16.0 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 338 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 16.8 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | YELLOW/CLEAR BROWN | | |

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

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

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500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 24, 2022





United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260

Tel: 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



NSC-TISI-TIS 17025
TESTING 0207

TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปลายท่ออบ EFFLUENT อาคาร D,E,F,G (จุดที่ 3)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : AUGUST 11, 2022
SAMPLING TIME : 13:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 11, 2022
ANALYTICAL DATE : AUGUST 11-19, 2022
REPORT NO. : 2022-U065067
WORK NO. : 2022-000950
ANALYSIS NO. : T22AP868-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AP868-0003 | | |
| pH ^a | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.3 (32°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 16.7 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 14.4 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM:2540 C | 382 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 44.0 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 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

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

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

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

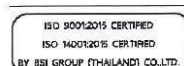
500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 24, 2022



• DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL .
• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

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ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : AUGUST 11, 2022
SAMPLING TIME : 13:45 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : AUGUST 11, 2022
ANALYTICAL DATE : AUGUST 11-17, 2022
REPORT NO. : 2022-U065068
WORK NO. : 2022-000950
ANALYSIS NO. : T22AP868-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|--|------|---|-------------------------------|-----------------|
| | | | WATER SUPPLY T22AP868-0004 | |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 187 | 25 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | YELLOW/CLEAR YELLOW | |

^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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 24, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร A,B,C (จุดที่ 1 ติดริมคลอง)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 15, 2022
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : SEPTEMBER 15, 2022
ANALYTICAL DATE : SEPTEMBER 15-23, 2022
REPORT NO. : 2022-U075019
WORK NO. : 2022-000950
ANALYSIS NO. : T22AS280-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AS280-0001 | | |
| pH ^a | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.0 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^a | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 70.8 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 28.2 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 226 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | 0.4 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^d | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 214 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 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

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

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 27, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร A, B, C (จุดที่ 2 ติดเฟส 1)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 15, 2022
SAMPLING TIME : 14:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : SEPTEMBER 15, 2022
ANALYTICAL DATE : SEPTEMBER 15-23, 2022
REPORT NO. : 2022-U075020
WORK NO. : 2022-000950
ANALYSIS NO. : T22AS280-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AS280-0002 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.2 (29°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B) | 7.8 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 12.1 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 500 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | < LOQ | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | YELLOW/TURBID BROWN | | |

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^c : 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, 23rd EDITION, 2017.

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500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 27, 2022





United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



NSC - TISI - TIS 17025
TESTING 0207

TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร D,E,F,G (จุดที่ 3)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 15, 2022
SAMPLING TIME : 14:25 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : SEPTEMBER 15, 2022
ANALYTICAL DATE : SEPTEMBER 15-23, 2022
REPORT NO. : 2022-U075021
WORK NO. : 2022-000950
ANALYSIS NO. : T22AS280-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AS280-0003 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.0 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 19.4 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 33.8 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 290 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 22.5 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/TURBID | | |
| SEDIMENT | | | YELLOW | | |

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

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

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

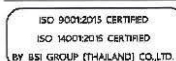
500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 27, 2022



• DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL .

• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : SEPTEMBER 15, 2022
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG
RECEIVED DATE : SEPTEMBER 15, 2022
ANALYTICAL DATE : SEPTEMBER 15-21, 2022
REPORT NO. : 2022-U075022
WORK NO. : 2022-000950
ANALYSIS NO. : T22AS280-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|--|------|---|-------------------------------|-----------------|
| | | | WATER SUPPLY T22AS280-0004 | |
| TOTAL DISSOLVED SOLIDS ° | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 146 | 25 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | COLOURLESS/CLEAR - | |

° : 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, 23RD EDITION, 2017.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 27, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร A,B,C (จุดที่ 1 ติดริมคลอง)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : NOVEMBER 25, 2022
SAMPLING TIME : 13:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS AMONRAT PUTTALAE
RECEIVED DATE : NOVEMBER 25, 2022
ANALYTICAL DATE : NOVEMBER 25 - DECEMBER 2, 2022
REPORT NO. : 2022-U096716
WORK NO. : 2022-000950
ANALYSIS NO. : T22AX553-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AX553-0001 | | |
| pH ^a | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 6.6 (32°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^a | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 12.9 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 26.1 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 335 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 6.6 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/TURBID | | |
| SEDIMENT | | | 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

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

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปลายท่อปล่อย EFFLUENT อาคาร A, B, C (จุดที่ 2 ติดเฟส 1)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : NOVEMBER 25, 2022
SAMPLING TIME : 14:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : NOVEMBER 25, 2022
ANALYTICAL DATE : NOVEMBER 25 - DECEMBER 2, 2022
REPORT NO. : 2022-U096717
WORK NO. : 2022-000950
ANALYSIS NO. : T22AX553-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AX553-0002 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.2 (29°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B) | 17.8 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 10.5 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 379 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | < LOQ | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 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

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

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร D,E,F,G (จุดที่ 3)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : NOVEMBER 25, 2022
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS AMONRAT PUTTALAE
RECEIVED DATE : NOVEMBER 25, 2022
ANALYTICAL DATE : NOVEMBER 25 - DECEMBER 2, 2022
REPORT NO. : 2022-U096718
WORK NO. : 2022-000950
ANALYSIS NO. : T22AX553-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AX553-0003 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.2 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 42.8 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 18.4 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 416 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 5.0 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/TURBID | | |
| SEDIMENT | | | 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

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

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
 LABORATORY SUPERVISOR

DECEMBER 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : NOVEMBER 25, 2022
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR APISIT SRIKONGKAEW
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : NOVEMBER 25, 2022
ANALYTICAL DATE : NOVEMBER 25-29, 2022
REPORT NO. : 2022-U096719
WORK NO. : 2022-000950
ANALYSIS NO. : T22AX553-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|--|------|---|-------------------------------|-----------------|
| | | | WATER SUPPLY T22AX553-0004 | |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 198 | 25 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | COLOURLESS/CLEAR | |

^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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร A,B,C (จุดที่ 1 ดัดริมคลอง)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : DECEMBER 22, 2022
SAMPLING TIME : 13:50 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS AMONRAT PUTTALEE
RECEIVED DATE : DECEMBER 22, 2022
ANALYTICAL DATE : DECEMBER 22-28, 2022
REPORT NO. : 2022-U104484
WORK NO. : 2022-000950
ANALYSIS NO. : T22AZ576-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AZ576-0001 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.3 (28°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^a | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B) | ND | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 9.7 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 452 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ₂ F) | < 0.50 | ≤ 10 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | < LOQ | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | | |
| SEDIMENT | | | YELLOW | | |

^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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 4, 2023



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : โรงบำบัดน้ำเสีย EFFLUENT อาคาร A, B, C (จุดที่ 2 ติดเฟส 1)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : DECEMBER 22, 2022
SAMPLING TIME : 14:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR. KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS AMONRAT PUTTALEE
RECEIVED DATE : DECEMBER 22, 2022
ANALYTICAL DATE : DECEMBER 22-28, 2022
REPORT NO. : 2022-U104485
WORK NO. : 2022-000950
ANALYSIS NO. : T22AZ576-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|--|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AZ576-0002 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 7.5 (28°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O ₂ C AND 5210 B) | 5.0 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 5.7 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: 2540 C | 328 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | < LOQ | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | YELLOW/TURBID YELLOW | | |

^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

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

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 4, 2023



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plurncondo.chw2@gmail.com
SAMPLING SOURCE : ปล่อยน้ำออก EFFLUENT อาคาร D,E,F,G (จุดที่ 3)
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : DECEMBER 22, 2022
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS AMONRAT PUTTALAE
RECEIVED DATE : DECEMBER 22, 2022
ANALYTICAL DATE : DECEMBER 22-28, 2022
REPORT NO. : 2022-U104486
WORK NO. : 2022-000950
ANALYSIS NO. : T22AZ576-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|--|---------------------------|---------------------|-----------------|
| | | | EFFLUENT T22AZ576-0003 | | |
| pH ^a | - | ELECTROMETRIC METHOD AT SITE (SM 4500-H ⁺ B) | 7.5 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 15.5 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 23.3 | ≤ 30 | 5.0 |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | IN-HOUSE METHOD: UAETP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C | 390 | 500* | 25 |
| SETTLABLE SOLIDS ^c | mL/L | IMHOFF CONE (SM: 2540 F) | < 0.1 | ≤ 0.5 | 0.1 |
| SULPHIDE ^b | mg/L | IODOMETRIC METHOD (SM: 4500-S ²⁻ F) | < 0.50 | ≤ 1.0 | 0.50 |
| TOTAL KJELDAHL NITROGEN ^b | mg/L | IN-HOUSE METHOD: UAETP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C | 20.7 | ≤ 35 | 1.5 |
| FAT, OIL AND GREASE ^a | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B) | ND | ≤ 20 | 3 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | YELLOW/TURBID YELLOW | | |

^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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.

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

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

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 4, 2023



ANALYSIS REPORT

CUSTOMER NAME : PLUM CONDO CHAENGWATTANA STATION
ADDRESS : 345 TALAT BANG KHEN LAK SI BANGKOK 10210
CONTACT INFORMATION : TEL : 0 2118 6319, 06 4143 0545 e-mail : plumcondo.chw2@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : DECEMBER 22, 2022
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : DECEMBER 22, 2022
ANALYTICAL DATE : DECEMBER 22-26, 2022
REPORT NO. : 2022-U104487
WORK NO. : 2022-000950
ANALYSIS NO. : T22AZ576-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|--|------|---|-------------------------------|-----------------|
| | | | WATER SUPPLY T22AZ576-0004 | |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 241 | 25 |
| SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT | | | YELLOW/CLEAR | |

^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.

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JANUARY 4, 2023

