

ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JULY 22, 2022
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : JULY 22, 2022
ANALYTICAL DATE : JULY 22-AUGUST 3, 2022
REPORT NO. : 2022-U060545
WORK NO. : 2022-001801
ANALYSIS NO. : T22A0536-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
| | | | บันทึกผล T22A0536-0001 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 6.7 (30°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 5.2 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 11.4 | ≤ 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 | 446 | 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 | 8.4 | ≤ 35 | 15 |
| 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 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNJO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JULY 22, 2022
SAMPLING TIME : 10:50 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 22, 2022
ANALYTICAL DATE : JULY 22-30, 2022
REPORT NO. : 2022-U060547
WORK NO. : 2022-001801
ANALYSIS NO. : T22A0536-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|---------------------------------------|------------|---|--|---------------------|-----------------|
| | | | SWIMMING POOL (DEEP ZONE) T22A0536-0003 | | |
| MICROBIOLOGY | | | | | |
| FAECAL COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E) | < 1.1 | NOT DETECTED | 1.1 |
| COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B) | < 1.1 | < 10 | 1.1 |
| 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.

REGULATORY STANDARD : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550, CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES.

< 1.1 : LESS THAN 1.1 MPN/100 mL MEANS NOT DETECTED.

Chaweevan B.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

AUGUST 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JULY 22, 2022
SAMPLING TIME : 10:55 HOUR
SAMPLING METHOD ^a : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 22, 2022
ANALYTICAL DATE : JULY 22-30, 2022
REPORT NO. : 2022-U060546
WORK NO. : 2022-001801
ANALYSIS NO. : T22A0536-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------------|---|---|---------------------|-----------------|
| | | | SWIMMING POOL (SHALLOW ZONE) T22A0536-0002 | | |
| MICROBIOLOGY | | | | | |
| FAECAL COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E) | < 1.1 | NOT DETECTED | 1.1 |
| COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B) | < 1.1 | < 10 | 1.1 |
| 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.

REGULATORY STANDARD : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550, CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES.

< 1.1 : LESS THAN 1.1 MPN/100 mL MEANS NOT DETECTED.


(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

AUGUST 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JULY 22, 2022
SAMPLING TIME : 10:45 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : JULY 22, 2022
ANALYTICAL DATE : JULY 22-27, 2022
REPORT NO. : 2022-U060548
WORK NO. : 2022-001801
ANALYSIS NO. : T22A0536-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|-------------------------------|---------------------|-----------------|
| | | | WATER SUPPLY T22A0536-0004 | | |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 259 | ≤ 1,000 | 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.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 8, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : AUGUST 17, 2022
SAMPLING TIME : 11:25 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : AUGUST 17, 2022
ANALYTICAL DATE : AUGUST 17-24, 2022
REPORT NO. : 2022-U066450
WORK NO. : 2022-001801
ANALYSIS NO. : T22AQ130-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|-----------------------------|---------------------|-----------------|
| | | | มอกพฉ. ๓๑๕ T22AQ130-0001 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 6.6 (31°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 13.0 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 16.6 | ≤ 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 | 441 | 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 | 20.3 | ≤ 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 30, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : AUGUST 17, 2022
SAMPLING TIME : 11:15 HOUR
SAMPLING METHOD ^a : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : AUGUST 17, 2022
ANALYTICAL DATE : AUGUST 17-22, 2022
REPORT NO. : 2022-U066451
WORK NO. : 2022-001801
ANALYSIS NO. : T22AQ130-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|---------------------------------------|------------|--|---|---------------------|-----------------|
| | | | SWIMMING POOL (SHALLOW ZONE) T22AQ130-0002 | | |
| MICROBIOLOGY | | | | | |
| FAECAL COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221E) | < 1.1 | NOT DETECTED | 1.1 |
| COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B) | < 1.1 | < 10 | 1.1 |
| 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.

REGULATORY STANDARD : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550; CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES.

< 1.1 : LESS THAN 1.1 MPN/100 mL MEANS NOT DETECTED.



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

AUGUST 30, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : AUGUST 17, 2022
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD ^a : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : AUGUST 17, 2022
ANALYTICAL DATE : AUGUST 17-22, 2022
REPORT NO. : 2022-U066452
WORK NO. : 2022-001801
ANALYSIS NO. : T22AQ130-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|---------------------------------------|------------|---|--|---------------------|-----------------|
| | | | SWIMMING POOL (DEEP ZONE) T22AQ130-0003 | | |
| MICROBIOLOGY | | | | | |
| FAECAL COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E) | < 1.1 | NOT DETECTED | 1.1 |
| COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B) | < 1.1 | < 10 | 1.1 |
| 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.

REGULATORY STANDARD : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550; CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES.

< 1.1 : LESS THAN 1.1 MPN/100 mL MEANS NOT DETECTED.

Chaweevan B.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

AUGUST 30, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : AUGUST 17, 2022
SAMPLING TIME : 11:00 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : AUGUST 17, 2022
ANALYTICAL DATE : AUGUST 17-22, 2022
REPORT NO. : 2022-U066453
WORK NO. : 2022-001801
ANALYSIS NO. : T22AQ130-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|-------------------------------|---------------------|-----------------|
| | | | WATER SUPPLY T22AQ130-0004 | | |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 169 | ≤ 1,000 | 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.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 30, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 28, 2022
SAMPLING TIME : 11:20 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS AMONRAT PUTTALAE

RECEIVED DATE : SEPTEMBER 28, 2022
ANALYTICAL DATE : SEPTEMBER 28 - OCTOBER 4, 2022
REPORT NO. : 2022-U079357
WORK NO. : 2022-001801
ANALYSIS NO. : T22AT204-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|-----------------------------|---------------------|-----------------|
| | | | ผลลัพธ์ที่ T22AT204-0001 | | |
| pH ^c | - | ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B) | 6.5 (30°C) | 5-9 | - |
| BIOCHEMICAL OXYGEN DEMAND ^c | mg/L | AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B) | 42.2 | ≤ 20 | 2.0 |
| SUSPENDED SOLIDS ^a | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D) | 414 | ≤ 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) | 1.0 | ≤ 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 | 12.7 | ≤ 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 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

OCTOBER 11, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 28, 2022
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD ^a : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : SEPTEMBER 28, 2022
ANALYTICAL DATE : SEPTEMBER 28 - OCTOBER 5, 2022
REPORT NO. : 2022-U079358
WORK NO. : 2022-001801
ANALYSIS NO. : T22AT204-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|---------------------------------------|------------|--|---|---------------------|-----------------|
| | | | SWIMMING POOL (SHALLOW ZONE) T22AT204-0002 | | |
| MICROBIOLOGY | | | | | |
| FAECAL COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221E) | < 1.1 | NOT DETECTED | 1.1 |
| COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B) | < 1.1 | < 10 | 1.1 |
| 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.

REGULATORY STANDARD : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550; CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES.

< 1.1 : LESS THAN 1.1 MPN/100 mL MEANS NOT DETECTED.



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

OCTOBER 11, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : SWIMMING POOL
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 28, 2022
SAMPLING TIME : 11:05 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : SEPTEMBER 28, 2022
ANALYTICAL DATE : SEPTEMBER 28 - OCTOBER 5, 2022
REPORT NO. : 2022-U079359
WORK NO. : 2022-001801
ANALYSIS NO. : T22AT204-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|---|------------|--|--|---------------------|-----------------|
| | | | SWIMMING POOL (DEEP ZONE) T22AT204-0003 | | |
| MICROBIOLOGY | | | | | |
| FAECAL COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221E) | < 1.1 | NOT DETECTED | 1.1 |
| COLIFORM BACTERIA ^b | MPN/100 mL | MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B) | < 1.1 | < 10 | 1.1 |
| 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.

REGULATORY STANDARD : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550; CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES

< 1.1 : LESS THAN 1.1 MPN/100 mL MEANS NOT DETECTED.

Chaweevan B.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

OCTOBER 11, 2022



ANALYSIS REPORT

CUSTOMER NAME : UNIO SERITHAI CONDOMINIUM JURISTIC PERSON
ADDRESS : 570 SERI THAI ROAD KHLONG KUM BUENG KUM BANGKOK 10240
CONTACT INFORMATION : TEL : 08 4134 6984 e-mail : UnioserithaiJP@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : SEPTEMBER 28, 2022
SAMPLING TIME : 11:00 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR ACHITA SAENGJAN
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : SEPTEMBER 28, 2022
ANALYTICAL DATE : SEPTEMBER 28-30, 2022
REPORT NO. : 2022-U079360
WORK NO. : 2022-001801
ANALYSIS NO. : T22AT204-0004

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|-------------------------------|---------------------|-----------------|
| | | | WATER SUPPLY T22AT204-0004 | | |
| TOTAL DISSOLVED SOLIDS ^b | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C) | 171 | ≤ 1,000 | 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.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

OCTOBER 11, 2022

