

# ผลวิเคราะห์คุณภาพน้ำทิ้ง โครงการ โรงแรม แคนทารี บ้านฉาง



**United Analyst and Engineering Consultant Co., Ltd.**

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NSC-TISI-TIS 17025  
TESTING 0207



TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : KASEMKIJ COMPANY LIMITED (KANTARY BANCHANG HOTEL)

**ADDRESS** : 91, 91/1 MOO 3 PHLA BANCHANG RAYONG 21130

**CONTACT INFORMATION** : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com

**SAMPLING SOURCE** : KANTARY HOTEL BANCHANG

**SAMPLE TYPE** : EFFLUENT

**SAMPLING DATE** : JULY 3, 2024

**SAMPLING TIME** : -

**SAMPLING METHOD** : -

**SAMPLING BY** : CUSTOMER

**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JULY 4, 2024

**ANALYTICAL DATE** : JULY 4-11, 2024

**ISSUE DATE** : JULY 12, 2024

**REPORT NO.** : 2024-U063718

**WORK NO.** : 2024-006015

**ANALYSIS NO.** : T24AP028-0001

| PARAMETER                              | UNIT | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
|  |      |   | EFFLUENT<br>T24AP028-0001 |                     |                 |
| pH <sup>a</sup>                        | -    | ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)   | 7.1 (25°C)                | 5-9                 | -               |
| BIOCHEMICAL OXYGEN DEMAND <sup>c</sup> | mg/L | AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)                                 | < 2.0                     | ≤ 30                | 2.0             |
| SUSPENDED SOLIDS <sup>c</sup>          | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)  | ND                        | ≤ 40                | 5.0             |
| TOTAL DISSOLVED SOLIDS <sup>b</sup>    | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C | 316                       | 500*                | 25              |
| SETTLABLE SOLIDS <sup>c</sup>          | mL/L | IMHOFF CONE (SM: PART 2540 F)   | < 0.1                     | ≤ 0.5               | 0.1             |
| SULPHIDE <sup>b</sup>                  | mg/L | IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)  | < 0.50                    | ≤ 1.0               | 0.50            |
| TOTAL KJELDAHL NITROGEN <sup>b</sup>   | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C                       | 7.5                       | ≤ 35                | 1.5             |
| FAT, OIL AND GREASE <sup>c</sup>       | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)                                 | ND                        | ≤ 20                | 3               |

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| PARAMETER                      | UNIT       | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT |
|--------------------------------|------------|---|---------------------------|---------------------|-----------------|
|                                |            |   | EFFLUENT<br>T24AP028-0001 |                     |                 |
| MICROBIOLOGY                   |            |   |                           |                     |                 |
| COLIFORM BACTERIA <sup>b</sup> | MPN/100 mL | MULTIPLE-TUBE FERMENTATION<br>TECHNIQUE (SM: PART 9221 B AND C) | < 1.8                     | -                   | 1.8             |
| SAMPLE CONDITION               |            |   |                           |                     |                 |
| WATER'S COLOUR/TURBID          |            |   | COLOURLESS/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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

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

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

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

ND : NOT DETECTED.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

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2024-U063718

- End of Analysis Report -

## ANALYSIS REPORT

**CUSTOMER NAME** : KASEMKIJ COMPANY LIMITED (KANTARY BANCHANG HOTEL)  
**ADDRESS** : 91, 91/1 MOO 3 PHLA BANCHANG RAYONG 21130  
**CONTACT INFORMATION** : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com  
**SAMPLING SOURCE** : KANTARY HOTEL BANCHANG  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 7, 2024  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS ARIYA THARAROM  
**RECEIVED DATE** : AUGUST 8, 2024  
**ANALYTICAL DATE** : AUGUST 8-16, 2024  
**ISSUE DATE** : AUGUST 16, 2024  
**REPORT NO.** : 2024-U075307  
**WORK NO.** : 2024-006949  
**ANALYSIS NO.** : T24AR830-0001

| PARAMETER                                | UNIT | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT |
|--|------|---|---------------------------|---------------------|-----------------|
|  |      |   | EFFLUENT<br>T24AR830-0001 |                     |                 |
| pH <sup>a</sup>                          | -    | ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)   | 7.3 (25°C)                | 5-9                 | -               |
| BIOCHEMICAL OXYGEN DEMAND** <sup>c</sup> | mg/L | AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)                                 | 3.4                       | ≤ 30                | 2.0             |
| SUSPENDED SOLIDS <sup>c</sup>            | mg/L | SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)  | ND                        | ≤ 40                | 5.0             |
| TOTAL DISSOLVED SOLIDS <sup>b</sup>      | mg/L | IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C | 297                       | 500*                | 25              |
| SETTLABLE SOLIDS <sup>c</sup>            | mL/L | IMHOFF CONE (SM: PART 2540 F)   | < 0.1                     | ≤ 0.5               | 0.1             |
| SULPHIDE <sup>b</sup>                    | mg/L | IODOMETRIC METHOD (SM: PART 4500-S <sub>2</sub> F)  | < 0.50                    | ≤ 1.0               | 0.50            |
| TOTAL KJELDAHL NITROGEN <sup>b</sup>     | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C                       | 34.6                      | ≤ 35                | 1.5             |
| FAT, OIL AND GREASE <sup>c</sup>         | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)                                 | ND                        | ≤ 20                | 3               |





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| PARAMETER                      | UNIT       | METHOD OF ANALYSIS   | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT |
|--------------------------------|------------|--|---------------------------|---------------------|-----------------|
|                                |            |  | EFFLUENT<br>T24AR830-0001 |                     |                 |
| MICROBIOLOGY                   |            |  |                           |                     |                 |
| COLIFORM BACTERIA <sup>b</sup> | MPN/100 mL | MULTIPLE-TUBE FERMENTATION<br>TECHNIQUE (SM: PART 9221B AND C) | < 1.8                     | -                   | 1.8             |
| SAMPLE CONDITION               |            |  |                           |                     |                 |
| 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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

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

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

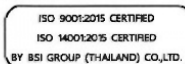
500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

\*\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NOT DETECTED.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR



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## ANALYSIS REPORT

**CUSTOMER NAME** : KASEMKIJ COMPANY LIMITED (KANTARY BANCHANG HOTEL)  
**ADDRESS** : 91, 91/1 MOO 3 PHLA BANCHANG RAYONG 21130  
**CONTACT INFORMATION** : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com  
**SAMPLING SOURCE** : KANTARY HOTEL BANCHANG  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : SEPTEMBER 4, 2024  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS ARIYA THARAROM  
**RECEIVED DATE** : SEPTEMBER 5, 2024  
**ANALYTICAL DATE** : SEPTEMBER 5-11, 2024  
**ISSUE DATE** : OCTOBER 3, 2024  
**REPORT NO.** : 2024-U092117  
**WORK NO.** : 2024-007792  
**ANALYSIS NO.** : T24AU339-0001

| PARAMETER                               | UNIT | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT |
|---|------|---|---------------------------|---------------------|-----------------|
|   |      |   | EFFLUENT<br>T24AU339-0001 |                     |                 |
| pH <sup>a</sup>                         | -    | ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)                   | 7.1 (25°C)                | 5.5-9.0             | -               |
| BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>  | mg/L | AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)           | 6.6                       | ≤ 30                | 2.0             |
| TOTAL SUSPENDED SOLIDS <sup>a</sup>     | mg/L | TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)            | 5.3                       | ≤ 40                | 5.0             |
| TOTAL DISSOLVED SOLIDS <sup>b</sup>     | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)                | 267                       | ≤ 1,000             | 25              |
| SETTLEABLE SOLIDS <sup>c</sup>          | mL/L | IMHOFF CONE (SM: PART 2540 F)   | < 0.1                     | -                   | 0.1             |
| SULPHIDE <sup>b</sup>                   | mg/L | IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)                     | < 0.50                    | ≤ 1.0               | 0.50            |
| TOTAL KJELDAHL NITROGEN <sup>a, c</sup> | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C | ND                        | ≤ 35                | 15              |
| OIL AND GREASE <sup>c</sup>             | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)           | ND                        | ≤ 20                | 3               |

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| PARAMETER                      | UNIT       | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT |
|--------------------------------|------------|---|---------------------------|---------------------|-----------------|
|                                |            |   | EFFLUENT<br>T24AU339-0001 |                     |                 |
| MICROBIOLOGY                   |            |   |                           |                     |                 |
| COLIFORM BACTERIA <sup>b</sup> | MPN/100 mL | MULTIPLE-TUBE FERMENTATION<br>TECHNIQUE (SM: PART 9221 B AND C) | < 1.8                     | -                   | 1.8             |
| SAMPLE CONDITION               |            |   |                           |                     |                 |
| WATER'S COLOUR/TURBID          |            |   | YELLOW/TURBID             |                     |                 |
| 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, 24<sup>th</sup> EDITION, 2023.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE  
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 141,  
PART 233 D, DATED AUGUST 27, 2024.

ND : NOT DETECTED.

<sup>A</sup> : SAMPLING BY CUSTOMER ON SEPTEMBER 24, 2024, ANALYSIS NO. T24AW433-0001

(ANALYTICAL DATE : SEPTEMBER 25 - OCTOBER 1, 2024).

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2024-U084654, ISSUE DATE SEPTEMBER 12, 2024

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

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## ANALYSIS REPORT

**CUSTOMER NAME** : KASEMKIJ COMPANY LIMITED (KANTARY BANCHANG HOTEL)  
**ADDRESS** : 91, 91/1 MOO 3 PHLA BANCHANG RAYONG 21130  
**CONTACT INFORMATION** : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com  
**SAMPLING SOURCE** : KANTARY HOTEL BANCHANG  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : DECEMBER 11, 2024  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS ARIYA THARAROM

**RECEIVED DATE** : DECEMBER 12, 2024  
**ANALYTICAL DATE** : DECEMBER 12-23, 2024  
**ISSUE DATE** : DECEMBER 24, 2024  
**REPORT NO.** : 2024-U120889  
**WORK NO.** : 2024-010951  
**ANALYSIS NO.** : T24BD238-0001

| PARAMETER                                | UNIT | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|--|------|---|---------------------------|---------------------|-----------------|-----------------------------|
|  |      |   | EFFLUENT<br>T24BD238-0001 |                     |                 |                             |
| pH <sup>a</sup>                          | -    | ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)                   | 6.2 (25°C)                | 5.5-9.0             | -               | -                           |
| BIOCHEMICAL OXYGEN DEMAND** <sup>c</sup> | mg/L | AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)           | < 2.0                     | ≤ 30                | -               | 2.0                         |
| TOTAL SUSPENDED SOLIDS <sup>a</sup>      | mg/L | TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)            | < 5.0                     | ≤ 40                | -               | 5.0                         |
| TOTAL DISSOLVED SOLIDS <sup>b</sup>      | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)                | 356                       | ≤ 1,000             | -               | 25                          |
| SETTLABLE SOLIDS <sup>c</sup>            | mL/L | IMHOFF CONE (SM: PART 2540 F)   | < 0.1                     | -                   | 0.1             | -                           |
| SULPHIDE <sup>b</sup>                    | mg/L | IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)                    | < 0.50                    | ≤ 1.0               | -               | 0.50                        |
| TOTAL KJELDAHL NITROGEN <sup>d</sup>     | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C | 15.9                      | ≤ 35                | 1.5             | 5.0                         |
| OIL AND GREASE <sup>a</sup>              | mg/L | LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)           | < 3                       | ≤ 20                | -               | 3                           |

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| PARAMETER                      | UNIT       | METHOD OF ANALYSIS  | RESULT                    | REGULATORY STANDARD | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|--------------------------------|------------|---|---------------------------|---------------------|-----------------|-----------------------------|
|                                |            |   | EFFLUENT<br>T248D238-0001 |                     |                 |                             |
| MICROBIOLOGY                   |            |   |                           |                     |                 |                             |
| COLIFORM BACTERIA <sup>o</sup> | MPN/100 mL | MULTIPLE-TUBE FERMENTATION<br>TECHNIQUE (SM: PART 9221 B AND C) | 240                       | -                   | 1.8             | -                           |
| SAMPLE CONDITION               |            |   |                           |                     |                 |                             |
| WATER'S COLOUR/TURBID          |            |   | YELLOW/TURBID             |                     |                 |                             |
| 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)

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

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MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 141,  
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*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

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