



## Analysis / Test Report

TESTING  
No.0166

**Client** : Bangkok Phuket Hospital Co., Ltd.  
2/1, Hongyok Utis Road, Taladyai, Muang, Phuket Thailand 83000

**P/O** :

**Project Name** : Water Testing : BPK

**Project Location** :

**Lot ID: 258891**

Date Received : Feb 05, 2025

Date Reported : Feb 22, 2025

Report Number : 3240697-1

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|                                |                                                                                                                                               |  |  |  |  |  |  |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| <b>Sample Number</b>           | 258891-18                                                                                                                                     |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Feb 04, 2025 10:10 AM                                                                                                                         |  |  |  |  |  |  |
| <b>Sample Description</b>      | น้ำเสียก่อนเข้าระบบบำบัด (น้ำรวม)                                                                                                             |  |  |  |  |  |  |
| <b>Location</b>                | ระบบบำบัดน้ำเสีย - บ่อรวบรวมน้ำเสีย                                                                                                           |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Feb 05, 2025                                                                                                                                  |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method                                                                                                                       | Testing Location |
|----------------------------------------------|------|------|-----------|--------|---------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Water Testing</b>                         |      |      |           |        |                           |                                                                                                                              |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -    | 2.0       | 109    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD                                          | mg/L | -    | 25        | 189    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -    | 3         | 4      | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -    | -         | 7.4    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Sulfide *                                    | mg/L | -    | 0.5       | 6.4    | ≤1                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)          | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -    | 5         | 464    | (1)                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Kjeldahl Nitrogen as N *               | mg/L | 0.15 | 1.0       | 75.3   | ≤35                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids                       | mg/L | -    | 5         | 20     | ≤30                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline** : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.  
(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 1000 mg/L.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Ananta B.

Ananta Boonphet  
Scientist (2)

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**P/O :**

**Project Name :** Water Testing : BPK

**Project Location :**

**Lot ID: 258891**

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**Sampling By :** Thaksin Aintrom , Furakan Kasetka

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

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|                                |                                                                                                                                              |  |  |  |  |  |  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| <b>Sample Number</b>           | 258891-19                                                                                                                                    |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Feb 04, 2025 10:00 AM                                                                                                                        |  |  |  |  |  |  |
| <b>Sample Description</b>      | น้ำทิ้งหลังออกจากระบบ (น้ำรวม)                                                                                                               |  |  |  |  |  |  |
| <b>Location</b>                | ระบบบำบัดน้ำเสีย - ท่อน้ำทิ้ง                                                                                                                |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Feb 05, 2025                                                                                                                                 |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                        | Unit      | LOD | LOQ (LOR) | Result | Guideline / Specification | Method                                                                                                                       | Testing Location |
|--------------------------------|-----------|-----|-----------|--------|---------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Microbiological Testing</b> |           |     |           |        |                           |                                                                                                                              |                  |
| Fecal Coliform                 | MPN/100mL | -   | -         | <1.8   | ≤1000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E               | Songkhla         |
| Total Coliform                 | MPN/100mL | -   | -         | <1.8   | ≤5000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B                  | Songkhla         |
| <b>Water Testing</b>           |           |     |           |        |                           |                                                                                                                              |                  |
| BOD (5 days at 20 degree C)    | mg/L      | -   | 2.0       | 6.3    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD                            | mg/L      | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                   | mg/L      | -   | 3         | <3     | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C              |           | -   | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Residual Free Chlorine         | mg/L      | -   | 0.1       | 0.4    | ≤1.0                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)             | Songkhla         |
| Sulfide *                      | mg/L      | -   | 0.5       | 1.0    | ≤1                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)          | Songkhla         |

Approved by

Chompoonuch F.

Chompoonuch Funtha  
Supervisor

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| <b>Sample Number</b>           | 258891-19                                                                                                                                    |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Feb 04, 2025 10:00 AM                                                                                                                        |  |  |  |  |  |  |
| <b>Sample Description</b>      | น้ำทิ้งหลังออกจากระบบ (น้ำรวม)                                                                                                               |  |  |  |  |  |  |
| <b>Location</b>                | ระบบบำบัดน้ำเสีย - ท่อน้ำทิ้ง                                                                                                                |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Feb 05, 2025                                                                                                                                 |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method                                                                                                             | Testing Location |
|----------------------------------------------|------|------|-----------|--------|---------------------------|--------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Water Testing</b>                         |      |      |           |        |                           |                                                                                                                    |                  |
| Total Dissolved solids Dried at 180 degree C | mg/L | -    | 5         | 344    | (1)                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C        | Songkhla         |
| Total Kjeldahl Nitrogen as N *               | mg/L | 0.15 | 1.0       | 31.2   | ≤35                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C) | Bangkok          |
| Total Suspended Solids                       | mg/L | -    | 5         | <5     | ≤30                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D        | Songkhla         |

**Guideline** : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.  
(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 1000 mg/L.

**Note** : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 157 มิลลิกรัมต่อลิตร

**Sampling By** : Thaksin Aintrom , Furakan Kasetka

Remark :

- LOD : Limit of Detection
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