



## 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: 2537323**

Date Received : May 07, 2025

Date Reported : May 24, 2025

Report Number : 3314137-1

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|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sample Number</b>           | 2537323-2                                                                                                          |
| <b>Sampled Date</b>            | May 06, 2025 10:55 AM                                                                                              |
| <b>Sample Description</b>      | น้ำประปาปลายทาง - ห้องซงนม                                                                                         |
| <b>Location</b>                | อ่างน้ำห้องซงนม                                                                                                    |
| <b>Date Analysis Commenced</b> | May 07, 2025                                                                                                       |
| <b>Condition of Sample</b>     | Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                   | Unit       | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method                                                                                                             | Testing Location |
|-------------------------------------------|------------|--------|-----------|--------|---------------------------|--------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Metals Testing</b>                     |            |        |           |        |                           |                                                                                                                    |                  |
| Iron                                      | mg/L       | 0.003  | 0.005     | 0.01   | ≤0.3                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Songkhla         |
| Manganese                                 | mg/L       | 0.0003 | 0.0005    | 0.002  | ≤0.3                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Songkhla         |
| <b>Microbiological Testing</b>            |            |        |           |        |                           |                                                                                                                    |                  |
| <i>Escherichia coli</i>                   | MPN/100mL  | -      | -         | <1.1   | <1.1                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F     | Songkhla         |
| Total Coliform                            | MPN/100mL  | -      | -         | <1.1   | <1.1                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B        | Songkhla         |
| <b>Water Testing</b>                      |            |        |           |        |                           |                                                                                                                    |                  |
| <sup>[A]</sup> Chloride as Cl             | mg/L       | 0.06   | 0.2       | 24.6   | ≤250                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B        | Bangkok          |
| Color (Apparent) *                        | Color unit | -      | 5         | 5      | ≤15                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B        | Songkhla         |
| <sup>[A]</sup> Nitrate as NO <sub>3</sub> | mg/L       | 0.3    | 1.0       | 34.0   | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B        | Bangkok          |
| pH at 25 degree C                         |            | -      | -         | 7.6    | 6.5-8.5                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)  | Songkhla         |

Approved by

Chompoonuch F.

Chompoonuch Funtha  
Supervisor

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.

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| <b>Sample Number</b>           | 2537323-2                                                                                                          |
| <b>Sampled Date</b>            | May 06, 2025 10:55 AM                                                                                              |
| <b>Sample Description</b>      | น้ำประปาปลายทาง - ห้องซงนม                                                                                         |
| <b>Location</b>                | อ่างน้ำห้องซงนม                                                                                                    |
| <b>Date Analysis Commenced</b> | May 07, 2025                                                                                                       |
| <b>Condition of Sample</b>     | Contained in four 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>                         |      |      |           |        |                           |                                                                                                                  |                  |
| Residual Free Chlorine                       | mg/L | -    | 0.1       | 0.3    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F) | Songkhla         |
| <sup>[A]</sup> Sulfate                       | mg/L | 0.15 | 0.5       | 8.1    | ≤250                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B      | Bangkok          |
| Total Dissolved solids Dried at 180 degree C | mg/L | -    | 5         | 168    | ≤500                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C      | Songkhla         |
| Total Hardness as CaCO <sub>3</sub>          | mg/L | -    | 1         | 48     | ≤300                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C      | Songkhla         |
| Turbidity                                    | NTU  | -    | 0.1       | 0.30   | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B      | Songkhla         |

**Guideline** : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

**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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DMSc Accreditation No. 1031/47.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by

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|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sample Number</b>           | 2537323-3                                                                                                          |
| <b>Sampled Date</b>            | May 06, 2025 11:05 AM                                                                                              |
| <b>Sample Description</b>      | น้ำประปาปลายทาง - แผนก ICU                                                                                         |
| <b>Location</b>                | อ่างน้ำแผนก ICU                                                                                                    |
| <b>Date Analysis Commenced</b> | May 07, 2025                                                                                                       |
| <b>Condition of Sample</b>     | Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                   | Unit       | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method                                                                                                             | Testing Location |
|-------------------------------------------|------------|--------|-----------|--------|---------------------------|--------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Metals Testing</b>                     |            |        |           |        |                           |                                                                                                                    |                  |
| Iron                                      | mg/L       | 0.003  | 0.005     | 0.05   | ≤0.3                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Songkhla         |
| Manganese                                 | mg/L       | 0.0003 | 0.0005    | 0.002  | ≤0.3                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Songkhla         |
| <b>Microbiological Testing</b>            |            |        |           |        |                           |                                                                                                                    |                  |
| <i>Escherichia coli</i>                   | MPN/100mL  | -      | -         | <1.1   | <1.1                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F     | Songkhla         |
| Total Coliform                            | MPN/100mL  | -      | -         | <1.1   | <1.1                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B        | Songkhla         |
| <b>Water Testing</b>                      |            |        |           |        |                           |                                                                                                                    |                  |
| <sup>[A]</sup> Chloride as Cl             | mg/L       | 0.06   | 0.2       | 14.7   | ≤250                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B        | Bangkok          |
| Color (Apparent) *                        | Color unit | -      | 5         | 5      | ≤15                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B        | Songkhla         |
| <sup>[A]</sup> Nitrate as NO <sub>3</sub> | mg/L       | 0.3    | 1.0       | 34.1   | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B        | Bangkok          |
| pH at 25 degree C                         |            | -      | -         | 7.6    | 6.5-8.5                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)  | Songkhla         |

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| <b>Sample Description</b>      | น้ำประปาปลายทาง - แผนก ICU                                                                                         |
| <b>Location</b>                | อ่างน้ำแผนก ICU                                                                                                    |
| <b>Date Analysis Commenced</b> | May 07, 2025                                                                                                       |
| <b>Condition of Sample</b>     | Contained in four 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>                         |      |      |           |        |                           |                                                                                                                  |                  |
| Residual Free Chlorine                       | mg/L | -    | 0.1       | 0.2    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F) | Songkhla         |
| <sup>[A]</sup> Sulfate                       | mg/L | 0.15 | 0.5       | 8.2    | ≤250                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B      | Bangkok          |
| Total Dissolved solids Dried at 180 degree C | mg/L | -    | 5         | 170    | ≤500                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C      | Songkhla         |
| Total Hardness as CaCO <sub>3</sub>          | mg/L | -    | 1         | 50     | ≤300                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C      | Songkhla         |
| Turbidity                                    | NTU  | -    | 0.1       | 0.35   | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B      | Songkhla         |

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