



Analysis / Test Report

TESTING
No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
2/1, Hongyok Utis Road, Taladyai, Muang, Phuket Thailand 83000
P/O : 005-4306178676
Project Name : Water Testing : BPK
Project Location :

Lot ID: 23133685
Date Received : Dec 06, 2023
Date Reported : Dec 22, 2023
Report Number : 2869426-1

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| | |
|--------------------------------|--|
| Sample Number | 23133685-9 |
| Sampled Date | Dec 05, 2023 10:00 AM |
| Sample Description | น้ำทิ้งหลังออกจากระบบ (น้ำรวม) |
| Location | ระบบบำบัดน้ำเสีย - ท่อน้ำทิ้ง |
| Date Analysis Commenced | Dec 06, 2023 |
| Condition of Sample | 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 |
|--------------------------------|-----------|-----|-----------|--------|---------------------------|---|------------------|
| Microbiological Testing | | | | | | | |
| <i>Escherichia coli</i> | MPN/100mL | - | - | 2.0 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F | Songkhla |
| Fecal Coliform | MPN/100mL | - | - | 4.5 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E | Songkhla |
| Total Coliform | MPN/100mL | - | - | 7.8 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B | Songkhla |
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | <2 | ≤20 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B | Songkhla |
| COD | mg/L | - | 25 | 38 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Songkhla |
| Oil & Grease | mg/L | - | 3 | <3 | ≤20 | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Songkhla |
| pH at 25 degree C | | - | - | 7.8 | 5.0-9.0 | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla |
| Residual Chlorine * | mg/L | - | 0.1 | 0.3 | No Standard | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (G) | Bangkok |

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Tuanjai Thangklang
Manager

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|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Settleable Solid * | mL/L/hr | - | 0.1 | <0.1 | ≤0.5 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Songkhla |
| Sulfide * | mg/L | - | 0.5 | <0.5 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Songkhla |
| Total Dissolved Solids Dried at 103-105 degree C * | mg/L | - | 5 | 448 | (1) | In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Songkhla |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 26.9 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids | mg/L | - | 5 | 9 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Songkhla |

Guideline : Notification of Ministry of Natural Resources and Environment November, 7, B.E. 2548 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 500 mg/L.

Note : สารละลายได้ทั้งหมดในน้ำใช้ = 165 mg/L

Sampling By : Yuttapong Rattana

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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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