

ภาคผนวก ค

เอกสารประกอบผลการปฏิบัติตามมาตรการติดตามตรวจสอบ
ผลกระทบสิ่งแวดล้อม



Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

Lot ID: 234154

Date Received : Jan 16, 2023

Date Reported : Jan 23, 2023

Report Number : 2549825-1

P/O :

Project Name :

Project Location :

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 234154-1 |
| Sampled Date | Jan 16, 2023 8:40 AM |
| Sample Description | Wastewater |
| Location | จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Jan 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, a lot of odour, some solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|---------|------|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 4 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.9 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| Settleable Solid * | mL/L/hr | - | 0.1 | 0.1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Bangkok |
| Sulfide * | mg/L | - | 0.5 | 2.2 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 308 | 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 24.9 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 8 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

Sampling By : Wisarut Sretamma

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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Approved by

Siriluk P.

Siriluk Puengpang
Supervisor

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Analysis / Test Report

TESTING

No.0009

Lot ID: 234154

Date Received : Jan 16, 2023

Date Reported : Jan 23, 2023

Report Number : 2549826-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O :

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 234154-2 |
| Sampled Date | Jan 16, 2023 8:30 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Jan 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 4.5 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 6.2 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 460 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | Not Detected | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Siriluk P.

Siriluk Puengpang
Supervisor



Analysis / Test Report

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No.0009

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O :

Project Name :

Project Location :

Lot ID: 234154

Date Received : Jan 16, 2023

Date Reported : Jan 23, 2023

Report Number : 2549826-1

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 234154-2 |
| Sampled Date | Jan 16, 2023 8:30 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Jan 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 25 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 280 มิลลิกรัมต่อลิตร

Sampling By :

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 234154

Date Received : Jan 16, 2023

Date Reported : Jan 23, 2023

Report Number : 2549827-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O :

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 234154-3 |
| Sampled Date | Jan 16, 2023 8:50 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Jan 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 3.7 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | <3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.4 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| Sulfide * | mg/L | - | 0.5 | 0.6 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 3.3 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Siriluk P.

Siriluk Puengpang
Supervisor



Analysis / Test Report

TESTING
No.0009

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O :

Project Name :

Project Location :

Lot ID: 234154

Date Received : Jan 16, 2023

Date Reported : Jan 23, 2023

Report Number : 2549827-1

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 234154-3 |
| Sampled Date | Jan 16, 2023 8:50 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Jan 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 280 มิลลิกรัมต่อลิตร

Sampling By :

Remark :

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Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

Lot ID: 234154

Date Received : Jan 16, 2023

Date Reported : Jan 23, 2023

Report Number : 2549828-1

P/O :**Project Name :****Project Location :**

Page 1 of 1

| | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Sample Number | 234154-4 | | | | | |
| Sampled Date | Jan 16, 2023 9:00 AM | | | | | |
| Sample Description | Consumption Water | | | | | |
| Date Analysis Commenced | Jan 17, 2023 | | | | | |
| Condition of Sample | Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | |
| Physical Property | Colorless, odourless, no solid and no turbid | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 280 | In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54230089
Project Name :
Project Location :

Lot ID: 2312550

Date Received : Feb 20, 2023

Date Reported : Feb 27, 2023

Report Number : 2579655-1

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 2312550-1 |
| Sampled Date | Feb 20, 2023 9:00 AM |
| Sample Description | Wastewater |
| Location | จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Feb 21, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, a lot of odour, some solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|---------|------|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 31.9 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 16 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.6 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| Settleable Solid * | mL/L/hr | - | 0.1 | 0.1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Bangkok |
| Sulfide * | mg/L | - | 0.5 | 5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 452 | 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 48.2 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2312550

Date Received : Feb 20, 2023

Date Reported : Feb 27, 2023

Report Number : 2579656-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2312550-2 |
| Sampled Date | Feb 20, 2023 8:55 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Feb 21, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 5.0 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 4 | ≤20 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 5.8 | 5.0-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 432 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 3.9 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 13 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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Siriluk P.

Siriluk Puengpang
Supervisor



Analysis / Test Report

TESTING

No.0009

Lot ID: 2312550

Date Received : Feb 20, 2023

Date Reported : Feb 27, 2023

Report Number : 2579656-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 222 มิลลิกรัมต่อลิตร

Sampling By : Wisarut Sretamma

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2312550

Date Received : Feb 20, 2023

Date Reported : Feb 27, 2023

Report Number : 2579657-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2312550-3 |
| Sampled Date | Feb 20, 2023 9:10 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Feb 21, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 2.2 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 3 | ≤20 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.3 | 5.0-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 428 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 2.9 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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Approved by

Siriluk P.

Siriluk Puengpang
Supervisor



Analysis / Test Report

TESTING

No.0009

Lot ID: 2312550

Date Received : Feb 20, 2023

Date Reported : Feb 27, 2023

Report Number : 2579657-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 222 มิลลิกรัมต่อลิตร

Sampling By : Wisarut Sretamma

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Siriluk P.

Siriluk Puengpang
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2312550

Date Received : Feb 20, 2023

Date Reported : Feb 27, 2023

Report Number : 2579658-1

Page 1 of 1

| | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Sample Number | 2312550-4 | | | | | |
| Sampled Date | Feb 20, 2023 9:15 AM | | | | | |
| Sample Description | Consumption Water | | | | | |
| Date Analysis Commenced | Feb 21, 2023 | | | | | |
| Condition of Sample | Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | |
| Physical Property | Colorless, odourless, no solid and no turbid | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 222 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Siriluk P.

Siriluk Puengpang
Supervisor

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Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2322078

Date Received : Mar 18, 2023

Date Reported : Mar 25, 2023

Report Number : 2604568-1

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 2322078-1 |
| Sampled Date | Mar 18, 2023 9:40 AM |
| Sample Description | Wastewater |
| Location | จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Mar 18, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, a lot of odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|---------|------|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 14.4 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 7 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.8 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| Settleable Solid * | mL/L/hr | - | 0.1 | 0.5 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Bangkok |
| Sulfide * | mg/L | - | 0.5 | 3.2 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 252 | 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 31.7 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 13 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

Sampling By : Wisarut Sretamma

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Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0009

Lot ID: 2322078

Date Received : Mar 18, 2023

Date Reported : Mar 25, 2023

Report Number : 2604569-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2322078-2 |
| Sampled Date | Mar 18, 2023 9:30 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Mar 18, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 14.1 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 4 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.6 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 304 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 21.4 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0009

Lot ID: 2322078

Date Received : Mar 18, 2023

Date Reported : Mar 25, 2023

Report Number : 2604569-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2322078-2 |
| Sampled Date | Mar 18, 2023 9:30 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Mar 18, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 9 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

Remark :

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Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0009

Lot ID: 2322078

Date Received : Mar 18, 2023

Date Reported : Mar 25, 2023

Report Number : 2604570-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2322078-3 |
| Sampled Date | Mar 18, 2023 10:00 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Mar 18, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 13.1 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.7 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 332 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 13.1 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0009

Lot ID: 2322078

Date Received : Mar 18, 2023

Date Reported : Mar 25, 2023

Report Number : 2604570-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2322078-3 |
| Sampled Date | Mar 18, 2023 10:00 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Mar 18, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 6 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

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Narin Saiseng
Supervisor



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2322078

Date Received : Mar 18, 2023

Date Reported : Mar 25, 2023

Report Number : 2604571-1

Page 1 of 1

| | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Sample Number | 2322078-4 | | | | | |
| Sampled Date | Mar 18, 2023 10:15 AM | | | | | |
| Sample Description | Consumption Water | | | | | |
| Date Analysis Commenced | Mar 20, 2023 | | | | | |
| Condition of Sample | Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | |
| Physical Property | Colorless, odourless, no solid and turbid | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 208 | In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Supervisor

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Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540
P/O : 54230089
Project Name :
Project Location :

Lot ID: 2333443

Date Received : Apr 22, 2023
Date Reported : Apr 29, 2023
Report Number : 2637440-1

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 2333443-1 |
| Sampled Date | Apr 22, 2023 9:45 AM |
| Sample Description | Wastewater |
| Location | จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Apr 22, 2023 |
| Condition of Sample | Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, a lot of solid and some turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|---------|------|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 12.9 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 5 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.7 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| Settleable Solid * | mL/L/hr | - | 0.1 | 0.2 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Bangkok |
| Sulfide * | mg/L | - | 0.5 | 9.8 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 260 | 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 31.3 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 12 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

Sampling By : Wisarut Sretamma

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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Approved by

Nanthawadee Somboon
Specialist 1

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Life Sciences

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2333443

Date Received : Apr 22, 2023

Date Reported : Apr 29, 2023

Report Number : 2637441-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2333443-2 |
| Sampled Date | Apr 22, 2023 9:36 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Apr 22, 2023 |
| Condition of Sample | Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 7.0 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 6.9 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 444 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 11.1 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Nanthawadee Somboon
Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2333443

Date Received : Apr 22, 2023

Date Reported : Apr 29, 2023

Report Number : 2637441-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2333443-2 | | | | | | |
| Sampled Date | Apr 22, 2023 9:36 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย | | | | | | |
| Date Analysis Commenced | Apr 22, 2023 | | | | | | |
| Condition of Sample | Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Physical Property | Yellow, some odour, solid and turbid | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 7 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

Remark :

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Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2333443

Date Received : Apr 22, 2023

Date Reported : Apr 29, 2023

Report Number : 2637442-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2333443-3 |
| Sampled Date | Apr 22, 2023 10:00 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Apr 22, 2023 |
| Condition of Sample | Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 5.3 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.5 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 412 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 4.2 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2333443

Date Received : Apr 22, 2023

Date Reported : Apr 29, 2023

Report Number : 2637442-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2333443-3 |
| Sampled Date | Apr 22, 2023 10:00 AM |
| Sample Description | Wastewater |
| Location | บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Apr 22, 2023 |
| Condition of Sample | Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2333443

Date Received : Apr 22, 2023

Date Reported : Apr 29, 2023

Report Number : 2637443-1

Page 1 of 1

| | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Sample Number | 2333443-4 | | | | | |
| Sampled Date | Apr 22, 2023 9:57 AM | | | | | |
| Sample Description | Consumption Water | | | | | |
| Date Analysis Commenced | Apr 24, 2023 | | | | | |
| Condition of Sample | Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | |
| Physical Property | Colorless, odourless, no solid and turbid | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 190 | In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Nanthawadee Somboon

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Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2343496

Date Received : May 20, 2023

Date Reported : May 27, 2023

Report Number : 2665631-1

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 2343496-1 |
| Sampled Date | May 20, 2023 9:15 AM |
| Sample Description | Wastewater |
| Location | จุดรวมรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | May 20, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, a lot of odour, some solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|---------|------|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 18.4 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 4 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 8.2 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| Settleable Solid * | mL/L/hr | - | 0.1 | <0.1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Bangkok |
| Sulfide * | mg/L | - | 0.5 | 2.2 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 324 | 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 25.3 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 13 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

Sampling By : Wisarut Sretamma

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Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2343496

Date Received : May 20, 2023

Date Reported : May 27, 2023

Report Number : 2665632-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2343496-2 |
| Sampled Date | May 20, 2023 9:05 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | May 20, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, a lot of solid and some turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 9.3 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 4 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 6.4 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 452 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 8.6 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Nanthawadee Somboon

Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2343496

Date Received : May 20, 2023

Date Reported : May 27, 2023

Report Number : 2665632-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2343496-2 | | | | | | |
| Sampled Date | May 20, 2023 9:05 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย | | | | | | |
| Date Analysis Commenced | May 20, 2023 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Physical Property | Yellow, some odour, a lot of solid and some turbid | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 12 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

Remark :

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Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2343496

Date Received : May 20, 2023

Date Reported : May 27, 2023

Report Number : 2665633-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2343496-3 |
| Sampled Date | May 20, 2023 9:25 AM |
| Sample Description | Wastewater |
| Location | ปล่อยน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | May 20, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 6.5 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Bangkok |
| Oil & Grease | mg/L | - | 3 | 3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.7 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 460 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 5.2 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Nanthawadee Somboon

Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2343496

Date Received : May 20, 2023

Date Reported : May 27, 2023

Report Number : 2665633-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2343496-3 |
| Sampled Date | May 20, 2023 9:25 AM |
| Sample Description | Wastewater |
| Location | ปล่อยน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | May 20, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 8 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Nant Somb

Nanthawadee Somboon
Specialist 1



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2343496

Date Received : May 20, 2023

Date Reported : May 27, 2023

Report Number : 2665634-1

Page 1 of 1

| | |
|--------------------------------|--|
| Sample Number | 2343496-4 |
| Sampled Date | May 20, 2023 9:20 AM |
| Sample Description | Consumption Water |
| Date Analysis Commenced | May 22, 2023 |
| Condition of Sample | Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Colorless, odourless, no solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 196 | In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Nanthawadee Somboon
Specialist 1

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Life Sciences

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Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2356907

Date Received : Jun 17, 2023

Date Reported : Jun 24, 2023

Report Number : 2696377-1

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 2356907-1 |
| Sampled Date | Jun 17, 2023 10:15 AM |
| Sample Description | Wastewater |
| Location | จุดรวมรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Jun 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, a lot of odour, solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|---------|------|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 11.6 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok |
| Oil & Grease | mg/L | - | 3 | 5 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.7 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| Settleable Solid * | mL/L/hr | - | 0.1 | 0.1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F | Bangkok |
| Sulfide * | mg/L | - | 0.5 | <0.5 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 244 | 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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 25.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 12 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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Nanthawadee Somboon
Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2356907

Date Received : Jun 17, 2023

Date Reported : Jun 24, 2023

Report Number : 2696378-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2356907-2 |
| Sampled Date | Jun 17, 2023 10:05 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Jun 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, a lot of solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 5.3 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok |
| Oil & Grease | mg/L | - | 3 | <3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.4 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 308 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 18.9 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Nant Somb

Nanthawadee Somboon

Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2356907

Date Received : Jun 17, 2023

Date Reported : Jun 24, 2023

Report Number : 2696378-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2356907-2 |
| Sampled Date | Jun 17, 2023 10:05 AM |
| Sample Description | Wastewater |
| Location | จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย |
| Date Analysis Commenced | Jun 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, a lot of solid and turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 10 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

TESTING

No.0009

Lot ID: 2356907

Date Received : Jun 17, 2023

Date Reported : Jun 24, 2023

Report Number : 2696379-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2356907-3 |
| Sampled Date | Jun 17, 2023 10:45 AM |
| Sample Description | Wastewater |
| Location | ปล่อยน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ |
| Date Analysis Commenced | Jun 17, 2023 |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some odour, solid and no turbid |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|---------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 2.7 | ≤30 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok |
| Oil & Grease | mg/L | - | 3 | <3 | ≤20 | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Bangkok |
| pH at 25 degree C | | - | - | 7.8 | 5.0-9.0 | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok |
| 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 | Bangkok |
| 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) | Bangkok |
| Total Dissolved Solids Dried at 103-105 degree C | mg/L | - | 5 | 344 | (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 | Bangkok |
| Total Kjeldahl Nitrogen as N * | mg/L | 0.15 | 1.0 | 8.3 | ≤35 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok |

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Nanthawadee Somboon

Specialist 1



Analysis / Test Report

TESTING

No.0009

Lot ID: 2356907

Date Received : Jun 17, 2023

Date Reported : Jun 24, 2023

Report Number : 2696379-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2356907-3 | | | | | | |
| Sampled Date | Jun 17, 2023 10:45 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | ปล่อยน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ | | | | | | |
| Date Analysis Commenced | Jun 17, 2023 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Physical Property | Yellow, some odour, solid and no turbid | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Bangkok |

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 B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Sampling By : Wisarut Sretamma

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Nanthawadee Somboon
Specialist 1



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2356907

Date Received : Jun 17, 2023

Date Reported : Jun 24, 2023

Report Number : 2696380-1

Page 1 of 1

| | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Sample Number | 2356907-4 | | | | | |
| Sampled Date | Jun 17, 2023 10:50 AM | | | | | |
| Sample Description | Consumption Water | | | | | |
| Date Analysis Commenced | Jun 19, 2023 | | | | | |
| Condition of Sample | Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | |
| Physical Property | Colorless, odourless, no solid and turbid | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|---|------------------|
| Water Testing | | | | | | |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 202 | In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Bangkok |

Sampling By : Wisarut Sretamma

Remark :

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