

## ภาคผนวก ค

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ใบรับรองผลการวิเคราะห์คุณภาพน้ำ



## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 2380307**

Date Received : Jul 12, 2023

Date Reported : Jul 22, 2023

Report Number : 2725807-1

Page 1 of 2

<b>Sample Number</b>	2380307-1
<b>Sampled Date</b>	Jul 12, 2023 10:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่บ่อพักน้ำก่อนเข้าระบบบำบัดน้ำเสีย
<b>Date Analysis Commenced</b>	Jul 13, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	1300000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>						
BOD (5 days at 20 degree C) *	mg/L	-	2.0	80.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Oil & Grease	mg/L	-	3	17	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	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	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	12.4	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	50.9	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	100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By** : Pichai Boonyong

Remark :

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

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Approved by

Sithichok T.

Sithichok Thongnueen  
Scientist (3)

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No.0009

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**P/O :** JR2212003  
**Project Name :**  
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**Lot ID: 2380307**

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Page 2 of 2

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**P/O :** JR2212003

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 2380307**

Date Received : Jul 12, 2023

Date Reported : Jul 22, 2023

Report Number : 2725808-1

Page 1 of 2

<b>Sample Number</b>	2380307-2
<b>Sampled Date</b>	Jul 12, 2023 10:45 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Jul 13, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	11000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	6.9	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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

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Sithichok T.

Sithichok Thongnguen

Scientist (3)



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2380307**

Date Received : Jul 12, 2023

Date Reported : Jul 22, 2023

Report Number : 2725808-1

**Client :** Suwan Estate Co., Ltd.

1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

Page 2 of 2

<b>Sample Number</b>	2380307-2
<b>Sampled Date</b>	Jul 12, 2023 10:45 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Jul 13, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	1.2	≤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	14	≤30	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 A.

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

**Note :** สารที่ละลายได้ทั้งหมดในน้ำใช้ = 234 มิลลิกรัมต่อลิตร

**Sampling By :** Pichai Boonyong

Remark :

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Accreditation No. 1031/47

## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**Lot ID: 2380307**

Date Received : Jul 12, 2023

Date Reported : Jul 21, 2023

Report Number : 2725809-1

Page 1 of 1

<b>Sample Number</b>	2380307-3
<b>Sampled Date</b>	Jul 12, 2023 10:40 AM
<b>Sample Description</b>	Tap Water
<b>Location</b>	น้ำประปา
<b>Date Analysis Commenced</b>	Jul 13, 2023
<b>Condition of Sample</b>	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	234	≤1000	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

**Guideline :** Water quality standards of the Metropolitan Waterworks Authority

(1) : Inorganic Mercury

**Sampling By :** Pichai Boonyong

Remark :

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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 2392125**

Date Received : Aug 09, 2023

Date Reported : Aug 21, 2023

Report Number : 2751284-1

Page 1 of 2

<b>Sample Number</b>	2392125-1
<b>Sampled Date</b>	Aug 09, 2023 9:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่บ่อพักน้ำก่อนเข้าระบบบำบัดน้ำเสีย
<b>Date Analysis Commenced</b>	Aug 09, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	17000000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>						
BOD (5 days at 20 degree C) *	mg/L	-	2.0	119	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Oil & Grease	mg/L	-	3	6	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	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	4.4	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	312	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	35.0	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	25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By** : Pichai Boonyong

Remark :

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

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Approved by

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Siriluk Puengpang  
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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 2392125**

Date Received : Aug 09, 2023

Date Reported : Aug 21, 2023

Report Number : 2751284-1

Page 2 of 2

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*Siriluk P.*

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2392125**

Date Received : Aug 09, 2023

Date Reported : Aug 21, 2023

Report Number : 2751285-1

**Client :** Suwan Estate Co., Ltd.

1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

Page 1 of 2

<b>Sample Number</b>	2392125-2
<b>Sampled Date</b>	Aug 09, 2023 9:05 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Aug 09, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	79000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	13.3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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		-	-	7.6	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	372	(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

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2392125**

Date Received : Aug 09, 2023

Date Reported : Aug 21, 2023

Report Number : 2751285-1

**Client :** Suwan Estate Co., Ltd.

1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

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<b>Sample Number</b>	2392125-2
<b>Sampled Date</b>	Aug 09, 2023 9:05 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Aug 09, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤30	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 A.

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

**Note :** สารที่ละลายได้ทั้งหมดในน้ำใช้ = 254 มิลลิกรัมต่อลิตร

**Sampling By :** Pichai Boonyong

Remark :

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Accreditation No. 1031/47

## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**Lot ID: 2392125**

Date Received : Aug 09, 2023

Date Reported : Aug 21, 2023

Report Number : 2751286-1

Page 1 of 1

**Sample Number** 2392125-3  
**Sampled Date** Aug 09, 2023 9:02 AM  
**Sample Description** Tap Water  
**Location** น้ำประปา  
**Date Analysis Commenced** Aug 10, 2023  
**Condition of Sample** Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	254	≤1000	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

**Guideline :** Water quality standards of the Metropolitan Waterworks Authority

(1) : Inorganic Mercury

**Sampling By :** Pichai Boonyong

Remark :

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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 23105915**

Date Received : Sep 13, 2023

Date Reported : Sep 23, 2023

Report Number : 2786763-1

Page 1 of 2

<b>Sample Number</b>	23105915-1
<b>Sampled Date</b>	Sep 13, 2023 10:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่บ่อพักน้ำก่อนเข้าระบบบำบัดน้ำเสีย
<b>Date Analysis Commenced</b>	Sep 14, 2023
<b>Condition of Sample</b>	Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	1700000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>						
BOD (5 days at 20 degree C) *	mg/L	-	2.0	67.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Oil & Grease	mg/L	-	3	8	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	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	4.0	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	332	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	28.5	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	38	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By** : Panupong Homewong

Remark :

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

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Approved by

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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 23105915**

Date Received : Sep 13, 2023

Date Reported : Sep 23, 2023

Report Number : 2786763-1

Page 2 of 2

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## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23105915**

Date Received : Sep 13, 2023

Date Reported : Sep 23, 2023

Report Number : 2786764-1

Page 1 of 2

<b>Sample Number</b>	23105915-2
<b>Sampled Date</b>	Sep 13, 2023 10:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Sep 14, 2023
<b>Condition of Sample</b>	Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	7000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	6.5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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		-	-	7.5	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	348	(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

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Approved by

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Sithichok Thongnguen

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23105915**

Date Received : Sep 13, 2023

Date Reported : Sep 23, 2023

Report Number : 2786764-1

**Client :** Suwan Estate Co., Ltd.

1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

Page 2 of 2

<b>Sample Number</b>	23105915-2
<b>Sampled Date</b>	Sep 13, 2023 10:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Sep 14, 2023
<b>Condition of Sample</b>	Contained in five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	2.3	≤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	≤30	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 A.

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

**Sampling By :** Panupong Homewong

Remark :

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## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**Lot ID: 23105915**

Date Received : Sep 13, 2023

Date Reported : Sep 23, 2023

Report Number : 2786765-1

Page 1 of 1

<b>Sample Number</b>	23105915-3
<b>Sampled Date</b>	Sep 13, 2023 10:05 AM
<b>Sample Description</b>	Tap Water
<b>Location</b>	น้ำประปา
<b>Date Analysis Commenced</b>	Sep 14, 2023
<b>Condition of Sample</b>	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	253	≤1000	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

**Guideline :** Water quality standards of the Metropolitan Waterworks Authority

(1) : Inorganic Mercury

**Sampling By :** Panupong Homewong

Remark :

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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 23118225**

Date Received : Oct 11, 2023

Date Reported : Oct 24, 2023

Report Number : 2814367-1

Page 1 of 2

<b>Sample Number</b>	23118225-1
<b>Sampled Date</b>	Oct 11, 2023 9:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่บ่อพักน้ำก่อนเข้าระบบบำบัดน้ำเสีย
<b>Date Analysis Commenced</b>	Oct 11, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	2400000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>						
BOD (5 days at 20 degree C) *	mg/L	-	2.0	80.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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		-	-	7.3	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	0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	7.5	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	292	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	30.1	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	50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By** : Panupong Homewong

Remark :

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Tuanjai Thangklang  
Manager

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O :** JR2212003  
**Project Name :**  
**Project Location :**

**Lot ID: 23118225**  
Date Received : Oct 11, 2023  
Date Reported : Oct 24, 2023  
Report Number : 2814367-1

Page 2 of 2

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## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23118225**

Date Received : Oct 11, 2023

Date Reported : Oct 24, 2023

Report Number : 2814368-1

Page 1 of 2

<b>Sample Number</b>	23118225-2
<b>Sampled Date</b>	Oct 11, 2023 9:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Oct 11, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	7000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	17.3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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		-	-	6.8	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	256	(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

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Tuanjai Thangklang  
Manager



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23118225**

Date Received : Oct 11, 2023

Date Reported : Oct 24, 2023

Report Number : 2814368-1

**Client :** Suwan Estate Co., Ltd.

1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

Page 2 of 2

<b>Sample Number</b>	23118225-2						
<b>Sampled Date</b>	Oct 11, 2023 9:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ						
<b>Date Analysis Commenced</b>	Oct 11, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	7.2	≤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	≤30	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 A.

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

**Note :** สารที่ละลายได้ทั้งหมดในน้ำใช้ = 156 มิลลิกรัมต่อลิตร

**Sampling By :** Panupong Homewong

Remark :

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Tuanjai Thangklang  
Manager



Accreditation No. 1031/47

## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**Lot ID: 23118225**

Date Received : Oct 11, 2023

Date Reported : Oct 24, 2023

Report Number : 2814369-1

Page 1 of 1

**Sample Number** 23118225-3  
**Sampled Date** Oct 11, 2023 9:30 AM  
**Sample Description** Tap Water  
**Location** น้ำประปา  
**Date Analysis Commenced** Oct 12, 2023  
**Condition of Sample** Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	156	≤1000	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

**Guideline :** Water quality standards of the Metropolitan Waterworks Authority

(1) : Inorganic Mercury

**Sampling By :** Panupong Homewong

Remark :

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Suwimon C.

Suwimon Chairuangwut  
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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 23128857**

Date Received : Nov 09, 2023

Date Reported : Nov 20, 2023

Report Number : 2839604-1

Page 1 of 2

<b>Sample Number</b>	23128857-1
<b>Sampled Date</b>	Nov 09, 2023 12:40 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่บ่อกักน้ำก่อนเข้าระบบบำบัดน้ำเสีย
<b>Date Analysis Commenced</b>	Nov 09, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	7000000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>						
BOD (5 days at 20 degree C) *	mg/L	-	2.0	95.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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		-	-	7.4	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	5.8	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	216	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	36.8	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	56	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By** : Pichai Boonyong

Remark :

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

Approved by

Suwannee Chumkeaw  
Section Head

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.

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## Analysis / Test Report

TESTING  
No.0009

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110  
**P/O** : JR2212003  
**Project Name** :  
**Project Location** :

**Lot ID: 23128857**

Date Received : Nov 09, 2023

Date Reported : Nov 20, 2023

Report Number : 2839604-1

Page 2 of 2

- 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

Suwannee Chuamkeaw  
Section Head

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## Analysis / Test Report

**Client** : Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O** : JR2212003

**Project Name** :

**Project Location** :

**TESTING**

**No.0009**

**Lot ID: 23128857**

Date Received : Nov 09, 2023

Date Reported : Nov 20, 2023

Report Number : 2839605-1

Page 1 of 2

<b>Sample Number</b>	23128857-2
<b>Sampled Date</b>	Nov 09, 2023 12:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ
<b>Date Analysis Commenced</b>	Nov 09, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Microbiological Testing</b>							
Total Coliform	MPN/100mL	-	-	490000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	14.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 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		-	-	7.2	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	0.8	≤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	276	(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

Approved by

Suwannee Chumkeaw  
Section Head

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## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23128857**

Date Received : Nov 09, 2023

Date Reported : Nov 20, 2023

Report Number : 2839605-1

Page 2 of 2

<b>Sample Number</b>	23128857-2						
<b>Sampled Date</b>	Nov 09, 2023 12:30 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ						
<b>Date Analysis Commenced</b>	Nov 09, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	23.0	≤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	18	≤30	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 A.

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

**Note :** สารที่ละลายได้ทั้งหมดในน้ำใช้ = 130 มิลลิกรัมต่อลิตร

**Sampling By :** Pichai Boonyong

Remark :

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- "<" : 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.

Approved by

Suwannee Chumkeaw  
Section Head

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Accreditation No. 1031/47

## Analysis / Test Report

**Client :** Suwan Estate Co., Ltd.  
1511, Sukhumvit Road, Phrakhanong-Nua, Wattana, Bangkok Thailand 10110

**P/O :** JR2212003

**Project Name :**

**Project Location :**

**Lot ID: 23128857**

Date Received : Nov 09, 2023

Date Reported : Nov 17, 2023

Report Number : 2839606-1

Page 1 of 1

<b>Sample Number</b>	23128857-3
<b>Sampled Date</b>	Nov 09, 2023 12:27 PM
<b>Sample Description</b>	Tap Water
<b>Location</b>	น้ำประปา
<b>Date Analysis Commenced</b>	Nov 10, 2023
<b>Condition of Sample</b>	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	130	≤1000	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

**Guideline :** Water quality standards of the Metropolitan Waterworks Authority

(1) : Inorganic Mercury

**Sampling By :** Pichai Boonyong

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.

Approved by

Suwimon C.

Suwimon Chairuangwut  
Scientist (3)

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.

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## Analysis Report BK2315818



TESTING  
No.0009

Client : Suwan Estate Co., Ltd.  
1511, Sukhumvit Rd., Khlong Tan Nuea, Watthana, Bangkok, Thailand, 10110  
P/O : 2311046  
Project : ----  
Project Location: Jasmine Resort Hotel

Work Order : **BK2315818**  
Report Number : BK2315818-AA  
Date Received : Dec 12, 2023  
Date Reported : Dec 22, 2023  
Date Analysis Commenced : Dec 14, 2023  
No. of samples received : 2  
Temperature : 4.0 °C  
Sampled by : Panupong Homewong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

### Signatories

Kittitee Jamjumroon  
Scientist (3)

## Terms and Conditions

### GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

### PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

### FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

### DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any patent to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report BK2315818

Report Number : BK2315818-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2315818-001	น้ำทิ้งที่ปล่อยน้ำก่อนเข้าระบบบำบัดน้ำเสีย	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Sterile Bottle - Preserved with Sodium Thiosulfate, 1x Oil & Grease, refrigerated
BK2315818-002	น้ำทิ้งที่ผ่านการบำบัดก่อนระบายออกสู่ภายนอกโครงการ	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Sterile Bottle - Preserved with Sodium Thiosulfate, 1x Oil & Grease, refrigerated

## Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	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)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (D)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	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
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6010	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B

## Terms and Conditions

### GENERAL

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### PROVISION OF SERVICES

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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
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  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
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  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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# Analysis Report BK2315818

Report Number : BK2315818-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

น้ำทิ้งที่ปล่อยก่อนเข้าระบบ  
บำบัดน้ำเสีย

น้ำทิ้งที่ผ่านการบำบัดก่อน  
ระบายออกสู่ภายนอกโครงการ

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Sampling Date

Dec 13, 2023 02:00 PM

Dec 13, 2023 01:54 PM

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Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2315818-001	BK2315818-002	-----
						MNRE 2548 Type A	----	Result	Result	----
Chemical Parameters										
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	96 *	6 *	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	8	<3	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.8	7.6	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	10.0 *	<0.5 *	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	41.3	2.0	----
Microbiological Parameters										
MC6010	Bangkok	Total Coliforms	----	----	MPN/100mL	----	----	2200000	33000	----
Physical and Aggregate Properties										
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	0.1 *	<0.1 *	----
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	372	340	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	32	11	----

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

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

----- END OF REPORT -----

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## Analysis Report BK2315818



Accreditation No.1031/47

Client : Suwan Estate Co., Ltd.  
1511, Sukhumvit Rd., Khlong Tan Nuea, Watthana, Bangkok, Thailand, 10110  
P/O : 2311046  
Project : ----  
Project Location: Jasmine Resort Hotel

Work Order : **BK2315818**  
Report Number : BK2315818-AB  
Date Received : Dec 12, 2023  
Date Reported : Dec 22, 2023  
Date Analysis Commenced : Dec 14, 2023  
No. of samples received : 1  
Temperature : 4.0 °C  
Sampled by : Panupong Homewong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

### Signatories

Nanthawadee Somboon  
Specialist 1

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## Analysis Report BK2315818

Report Number : BK2315818-AB



Accreditation No.1031/47

### Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2315818-003	น้ำประปา	----	----	1x 500mL Plastic Bottle, refrigerated

### Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0100	Bangkok	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

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- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

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# Analysis Report BK2315818

Report Number : BK2315818-AB



Accreditation No.1031/47

Sub-Matrix: PROCESS WATER

Client Sample ID

น้ำประปา

(Matrix: WATER)

Sampling Date

Dec 13, 2023 01:49 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2315818-003	-----	-----
						----	----		Result	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	----	----	208	----	----

Guideline: ----

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

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

----- END OF REPORT -----

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