

บทที่ 3

ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

นิติบุคคลอาคารชุดแอสปายอุดรธานี

ที่อยู่เจ้าของโครงการ นิติบุคคลอาคารชุดแอสปายอุดรธานี
 669 หมู่ 2 ซ.บ้านโพธิ์สว่าง ถ.โพศรี ต.หมากแข้ง อ.เมือง จ.อุดรธานี 41000
 วันที่เก็บตัวอย่าง มกราคม 2568 ถึง มิถุนายน 2568 (ความถี่ 1 ครั้ง / เดือน)

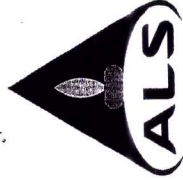
สถานที่เก็บตัวอย่าง

1. จุดระบายน้ำออกจากระบบ
2. บ่อพักน้ำสุดท้ายก่อนระบายออกท่อสาธารณะ

นิติบุคคลแอสปายอุดรธานี

ตำแหน่งที่วัด	พารามิเตอร์ที่วัด						Total dissolved solids
	pH	BOD (mg/L)	Total Suspended Solids (mg/L)	Oil & Grease (mg/L)	TKN (mg/L)	Sulfide (mg/L)	
1. น้ำเสียหลังจากบำบัด ม.ค 68	7.9	18.8	15	3	48.5	0.5	304
2. น้ำเสียหลังจากบำบัด ก.พ 68	7.4	19.0	12	3	41.8	0.5	352
3. น้ำเสียหลังจากบำบัด มี.ค 68	7.4	12.9	17	3	39.9	0.5	344
4. น้ำเสียหลังจากบำบัด เม.ย 68	7.5	5.3	11	3	32.8	0.5	524
5. น้ำเสียหลังจากบำบัด พ.ค 68	7.2	3	13	3	28.8	0.5	520
6. น้ำเสียหลังจากบำบัด มิ.ย 68	7.7	19.5	22	3	30	0.5	476
ค่ามาตรฐาน ***	5.5-9	≤ 30	≤ 40	≤ 20	≤ 35	≤ 1.0	≤ 1000

หมายเหตุ: *** ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุม การระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด ลงวันที่ 7 พฤศจิกายน 2548 ประกาศในราชกิจจานุเบกษา เล่มที่ 122 ตอนที่ 12 ลง วันที่ 29 ธันวาคม 2548



Analysis Report NN2500001



TESTING
1168 No.0009

Client : Juristic Person Condo Aspire Udonthani

669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani,
Thailand, 41000

P/O : ---

Project : ---

Project Location: Juristic Person Condo Aspire Udonthani

Work Order : NN2500001
Report Number : NN2500001-AA
Date Received : Jan 04, 2025
Date Reported : Jan 11, 2025
Date Analysis Commenced : Jan 04, 2025
No. of samples received : 1
Temperature : 3.2 °C
Sampled by : Anukun Wilasang

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

Signatories

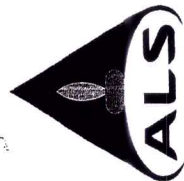
Siriluk P.

Siriluk Bunnak

Section Head

ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Life Sciences

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000



Analysis Report NN2500001

Report Number : NN2500001-AA



TESTING
No.0009

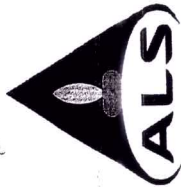
Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
NN2500001-001	น้ำดื่ม	---	---	1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 1L 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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D



Analysis Report NN2500001

Report Number : NN2500001-AA

Sub-Matrix: WASTEWATER
(Matrix: WATER)

TESTING
No.0009



Client Sample ID					Sampling Date		Client Sample ID	
Method					Guideline		Result	
Analytes					MNRE 2567 Type B		Result	
Unit					LOQ		LOD	
LOQ					LOD		LOQ	
BOD (5 days at 20°C)					2.0		0.15	
Oil & Grease					3		0.15	
pH at 25°C					1.0		0.15	
Sulfides					0.5		0.15	
Total Kjeldahl Nitrogen as N					1.0		0.15	
Physical and Aggregate Properties					Total Dissolved Solids at 180°C		Total Suspended Solids	
Bangkok					5		5	
Bangkok					5		5	

Guideline: MNRE 2567 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B

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
 - ° "L" : 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 -----



Analysis Report NN2500003



TESTING
No.0009 2/164

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000

P/O : ---
Project : ---

Project Location: Juristic Person Condo Aspire Udonthani

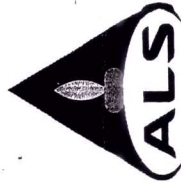
Work Order : NN2500003
Report Number : NN2500003-AA
Date Received : Feb 04, 2025
Date Reported : Feb 10, 2025
Date Analysis Commenced : Feb 05, 2025
No. of samples received : 1
Temperature : 3.9 °C
Sampled by : Anukun Wilasang

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

Signatories

Siriluk P.

Siriluk Bunnak
Section Head



Analysis Report NN2500003

Report Number : NN2500003-AA



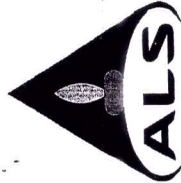
TESTING
No.0009

Sample Receipt and Conditions			
Sample ID	Sample Name	Sample Description	Conditions
NN2500003-001	น้ำดื่ม	---	1x Plastic bottle - Preserved with H2SO4, 1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 1L Oil & Grease

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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D



Analysis Report NN2500003

Report Number : NN2500003-AA

TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

ปิ่นทอง

Sampling Date

Feb 03, 2025

Guideline

NN2500003-001

MNRE 2567

Type B

Result

Chemical Parameters

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline	Result
EN0044	Bangkok	BOD (5 days at 20°C)	---	2.0	mg/L	≤30	19.0
EN0048	Bangkok	Oil & Grease	---	3	mg/L	≤20	<3
EN0021	Bangkok	pH at 25°C	---	1.0	pH Unit	5.5-9	7.4
EN0032	Bangkok	Sulfides	---	0.5	mg/L	≤1	<0.5 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	41.8

Physical and Aggregate Properties

EN0100	Bangkok	Total Dissolved Solids at 180°C	---	5	mg/L	≤1000	352
EN0102	Bangkok	Total Suspended Solids	---	5	mg/L	≤40	12

Guideline: MNRE 2567 Type B: Building. Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B

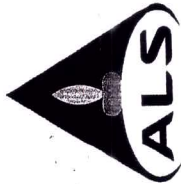
Comment: The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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

Key:

- LOD : Limit of Detection
- "L" : 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 -----



Analysis Report NN2500004



TESTING
No.0009 3/68

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000
P/O : ---
Project : ---
Project Location: Juristic Person Condo Aspire Udonthani

Work Order : NN2500004
Report Number : NN2500004-AA
Date Received : Mar 04, 2025
Date Reported : Mar 10, 2025
Date Analysis Commenced : Mar 05, 2025
No. of samples received : 1
Temperature : 3.1 °C
Sampled by : Anukun Wilasang (γ-204-γ-0170)

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

Signatories

Siriluk P.

Siriluk Bunnak
Section Head
γ-204-γ-0013

Kanok Korn Anek

Kanok Korn Anek
Assistant General Manager
γ-204-γ-0004

ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Life Sciences

104 Phathanakan 40, Phathanakan Rd., Khwaeng Phathanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000



Analysis Report NN2500004

Report Number : NN2500004-AA

TESTING
No.0009

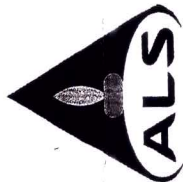


Sample Receipt and Conditions			
Sample ID	Sample Name	Sample Description	GPS
NN2500004-001	น้ำดื่ม	1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 1L Oil & Grease, refrigerated	---

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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Norg (C)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D



Analysis Report NN2500004

Report Number : NN2500004-AA

Sub-Matrix: WASTEWATER

(Matrix: WATER)

TESTING
No.0009



Sub-Matrix: WASTEWATER (Matrix: WATER)										Client Sample ID		Sampling Date		Guideline		Unit		LOQ		LOD		Analytes		Testing Lab		Method		Result		Date			
										NN2500004-001		Mar 03, 2025 03:00 PM		MNRE 2567 Type B																			
Chemical Parameters																																	
EN0044		Bangkok		BOD (5 days at 20°C)				2.0		mg/L		≤30				12.9																	
EN0048		Bangkok		Oil & Grease				3		mg/L		≤20				<3																	
EN0021		Bangkok		pH at 25°C				1.0		pH Unit		5.5-9				7.4																	
EN0032		Bangkok		Sulfides				0.5		mg/L		≤1				<0.5 *																	
EN0035		Bangkok		Total Kjeldahl Nitrogen as N				1.0		mg/L		≤35				39.9																	
Physical and Aggregate Properties																																	
EN0100		Bangkok		Total Dissolved Solids at 180°C				5		mg/L		≤1000				344																	
EN0102		Bangkok		Total Suspended Solids				5		mg/L		≤40				17																	

Guideline: MNRE 2567 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B

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
 - "L" : 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 -----



Analysis Report NN2500005



TESTING
No.0009 4/68

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000

P/O : ---

Project : ---

Project Location: Juristic Person Condo Aspire Udonthani

Work Order : NN2500005

Report Number : NN2500005-AA

Date Received : Apr 02, 2025

Date Reported : Apr 08, 2025

Date Analysis Commenced : Apr 02, 2025

No. of samples received : 1

Temperature : 2.1 °C

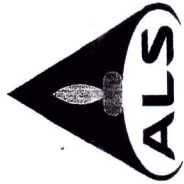
Sampled by : Anukun Wilasang

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

Signatories

Siriluk P.

Siriluk Bunnak
Section Head



Analysis Report NN2500005

Report Number : NN2500005-AA



4188
TESTING

No.0009

Sample Receipt and Conditions			
Sample ID	Sample Name	Sample Description	GPS
NN2500005-001	น้ำผ้าน	---	---
			Conditions
			1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 1L 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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D



Analysis Report NN2500005

Report Number : NN2500005-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)				Client Sample ID			
				Sampling Date			
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline	Result
						MNRE 2567 Type B	
Chemical Parameters							
END0044	Bangkok	BOD (5 days at 20°C)		2.0	mg/L	≤30	5.3
END0048	Bangkok	Oil & Grease		3	mg/L	≤20	<3
END0021	Bangkok	pH at 25°C		1.0	pH Unit	5.5-9	7.5
END0032	Bangkok	Sulfides		0.5	mg/L	≤1	<0.5 *
END0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	32.8
Physical and Aggregate Properties							
END100	Bangkok	Total Dissolved Solids at 180°C		5	mg/L	≤1000	524
END102	Bangkok	Total Suspended Solids		5	mg/L	≤40	11

Guideline: MNRE 2567 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B

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
- "L" : 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 -----



Analysis Report NN2500007



TESTING
No.0009 5/68

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000

P/O : ---

Project : ---

Project Location: Juristic Person Condo Aspire Udonthani

Work Order : NN2500007

Report Number : NN2500007-AA

Date Received : May 03, 2025

Date Reported : May 09, 2025

Date Analysis Commenced : May 03, 2025

No. of samples received : 1

Temperature : 3.6 °C

Sampled by : Anukun Wilasang

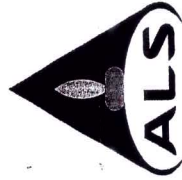
Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Nant Somb

Nanthawadee Somboon

Specialist 2



Analysis Report NN2500007

Report Number : NN2500007-AA



TESTING
No.0009

Sample Receipt and Conditions			
Sample ID	Sample Name	Sample Description	Conditions
NN2500007-001	ปลาน้ำจืด	---	1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 1L 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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D



Analysis Report NN2500007

Report Number : NN2500007-AA

Sub-Matrix: WASTEWATER

(Matrix: WATER)



TESTING
No.0009

Sub-Matrix: WASTEWATER													
(Matrix: WATER)													
Client Sample ID													
Sampling Date													
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		Result	May 02, 2025 02:05 PM	NN2500007-001	Result		
						MNRE 2567	Type B						
Chemical Parameters													
EN0044	Bangkok	BOD (5 days at 20°C)		2.0	mg/L		≤30			28.9			
EN0048	Bangkok	Oil & Grease		3	mg/L		≤20			<3			
EN0021	Bangkok	pH at 25°C		1.0	pH Unit		5.5-9			7.2			
EN0032	Bangkok	Sulfides		0.5	mg/L		≤1			<0.5 *			
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L		≤35			28.8			
Physical and Aggregate Properties													
EN0100	Bangkok	Total Dissolved Solids at 180°C		5	mg/L		≤1000			520			
EN0102	Bangkok	Total Suspended Solids		5	mg/L		≤40			13			

Guideline: MNRE 2567 Type B; Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B

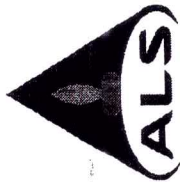
Comment: The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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

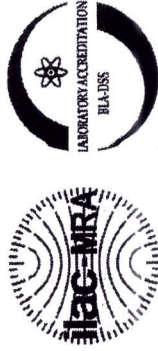
Key:

- LOD : Limit of Detection
- "L" : 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 -----



Analysis Report NN2500002



TESTING
No.0009

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000

P/O : ---
Project : ---
Project Location: Juristic Person Condo Aspire Udonthani

Work Order : NN2500002
Report Number : NN2500002-AB
Date Received : Jun 03, 2025
Date Reported : Jun 13, 2025
Date Analysis Commenced : Jun 04, 2025
No. of samples received : 1
Temperature : 2.2 °C
Sampled by : Anukun Willasang (7-204-a-0170)

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

Signatories

Siriluk P.

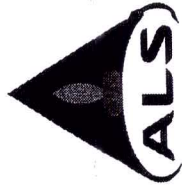
Siriluk Bunnak
Section Head
7-204-a-0013

Kanok Korn Anek

Kanok Korn Anek
Assistant General Manager
7-204-a-0004

ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Life Sciences

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000



Analysis Report NN25000002

Report Number : NN25000002-AB



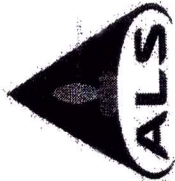
TESTING
No.0009

Sample Receipt and Conditions			
Sample ID	Sample Name	Sample Description	GPS
NN25000002-002	ปลาน้ำจืด	---	---
			Conditions 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 1L 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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Norg (C)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

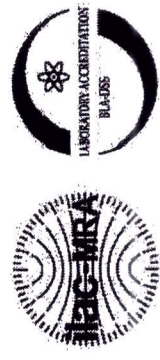


Analysis Report NN2500002

Report Number : NN2500002-AB

Sub-Matrix: WASTEWATER

(Matrix: WATER)



TESTING
No.0009 6/68

Sub-Matrix: WASTEWATER (Matrix: WATER)						Client Sample ID		สถานะ	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Sampling Date		Result	สถานะ
						Guideline	Type B		
Chemical Parameters									
EN0044	Bangkok	BOD (5 days at 20°C)	---	2.0	mg/L	---	---	19.5	---
EN0048	Bangkok	Oil & Grease	---	3	mg/L	---	---	<3	---
EN0021	Bangkok	pH at 25°C	---	1.0	pH Unit	---	---	7.7	---
EN0032	Bangkok	Sulfides	---	0.5	mg/L	---	---	<0.5 *	---
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	---	---	30	---
Physical and Aggregate Properties									
EN0100	Bangkok	Total Dissolved Solids at 180°C	---	5	mg/L	---	---	476	---
EN0102	Bangkok	Total Suspended Solids	---	5	mg/L	---	---	22	---

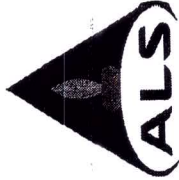
Guideline: MINRE 2567 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B

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
 - "L" : 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 -----



Analysis Report NN2500002



TESTING
No.0009

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000
P/O : ---
Project : ---
Project Location: Juristic Person Condo Aspire Udonthani

Work Order : NN2500002
Report Number : NN2500002-AC
Date Received : Jun 03, 2025
Date Reported : Jun 13, 2025
Date Analysis Commenced : Jun 03, 2025
No. of samples received : 1
Temperature : 2.2 °C
Sampled by : Anukun Wilasang

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

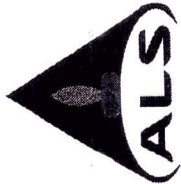
Signatories

Tuanjai T.

Tuanjai Thangklang
Lab Manager - Microbiology

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

104 Phatthongkan 40, Phatthamakan Rd., Khwaeng Phatthamakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000



Analysis Report NN2500002

Report Number : NN2500002-AC



TESTING
No.0009

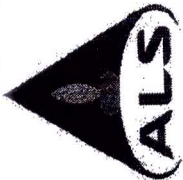
Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
NN2500002-003	สารละลาย	—	—	1x 1L Plastic Bottle, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

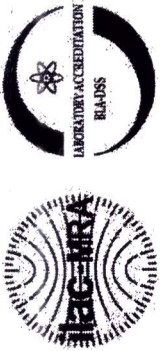
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B
EN0017	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - NH3 (F)
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0041	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C
EN0077	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC6021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 E



Analysis Report NN2500002

Report Number : NN2500002-AC



TESTING
No.0009

Sub-Matrix: PROCESS WATER

(Matrix: WATER)

Sub-Matrix: PROCESS WATER					Client Sample ID		ส่งมอบ	
Sub-Matrix: WATER								
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Sampling Date		
						Guideline	Result	
						MOPH 61 & 135		
Chemical Parameters								
EN0017	Bangkok	Ammonia Nitrogen	0.02	0.05	mg/L	—	<0.05 *	
EN0002	Bangkok	Chloride as Cl	0.06	0.2	mg/L	≤250	150 *	
EN0002	Bangkok	Nitrate as N	0.06	0.2	mg/L	≤4	0.6 *	
EN0021	Bangkok	pH at 25°C	—	1.0	pH Unit	6.5-8.5	7.5	
EN0041	Bangkok	Total Hardness as CaCO3	—	1	mg/L	≤100	62 *	
Microbiological Parameters								
MC6009	Bangkok	Total Coliforms	—	—	MPN/100mL	≤2.2	<1.1	
MC6012	Bangkok	Escherichia coli	—	—	In 100mL	Not Detected	Not Detected	
MC6021	Bangkok	Fecal Coliforms	—	—	MPN/100mL	—	<1.1 *	
Physical and Aggregate Properties								
EN0077	Bangkok	Total Alkalinity as CaCO3	—	1	mg/L	—	5 *	

Guideline: MOPH 61 & 135; Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553 & Pathogenic: 416 B.E. 2563

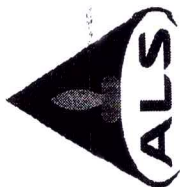
Comment: The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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 —————



Analysis Report NN25000002



ISO/IEC 17025
Accreditation No. 10311/47

Client : Juristic Person Condo Aspire Udonthani
669 Moo 2, Tambon Mak Khaeng, Amphoe Mueang Udon Thani, Udon Thani,
Thailand, 41000
P/O : ---
Project : ---
Project Location: Juristic Person Condo Aspire Udonthani

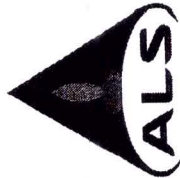
Work Order : NN25000002
Report Number : NN25000002-AA
Date Received : Jun 03, 2025
Date Reported : Jun 13, 2025
Date Analysis Commenced : Jun 04, 2025
No. of samples received : 1
Temperature : 2.2 °C
Sampled by : Anukun Wilasang

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

Signatories

Siriluk P.

Siriluk Bunnak
Section Head



Analysis Report NN25000002

Report Number : NN25000002-AA



ISO/IEC 17025

Accreditation No. 1031/47

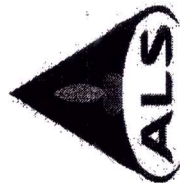
Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
NN25000002-001	น้ำประปา	---	---	1x 1L Plastic Bottle, refrigerated

Brief Method Summaries

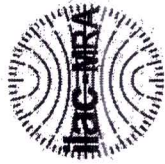
The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0081	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B
EN0082	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510B
EN0104	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B



Analysis Report NN2500002

Report Number : NN2500002-AA



ISO/IEC 17025
Accreditation No. 1031/47

Sub-Matrix: PROCESS WATER

(Matrix: WATER)

Client Sample ID					Client	
Sampling Date					Date	
Guideline					Result	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	
Chemical Parameters						
EN0021	Bangkok	pH at 25 °C	---	1.0	pH Unit	7.5
Physical and Aggregate Properties						
EN0081	Bangkok	Color (Apparent)	---	5	Color unit	<5 *
EN0082	Bangkok	Conductivity at 25 °C	---	0.50	µS/cm	590 *
EN0104	Bangkok	Turbidity	---	0.1	NTU	0.7

Guideline: PWA 2565; Provincial Waterworks Authority on water quality standards

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
- "L" : 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 -----