

## ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

## ภาคผนวก ค-1

---

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888677-1

Page 1 of 2

<b>Sample Number</b>	23143474-8						
<b>Sampled Date</b>	Jan 11, 2024 9:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Jan 12, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0007	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2792	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Thanwa Jariya ทะเบียนเลขที่ ว-204-จ-5414

Remark :

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

**Technical Management**



Siriluk Puengpang  
Section Head

ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888677-1

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.

**Technical Management**



Siriluk Puengpang  
Section Head

ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888677-2

Page 1 of 1

<b>Sample Number</b>	23143474-8						
<b>Sampled Date</b>	Jan 11, 2024 9:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Jan 12, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, 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>							
Dissolved Oxygen *	mg/L	-	0.1	5.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Thanwa Jariya

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

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.

Siriuk Puengpang  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

231-371/ EMAIL

S:\Reports\_All\_GL.rpt ( 1:25PM)



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 23143474**

Date Received : Jan 11, 2024  
Date Reported : Jan 18, 2024  
Report Number : 2888677-3

Page 1 of 1

<b>Sample Number</b>	23143474-8
<b>Sampled Date</b>	Jan 11, 2024 9:55 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Jan 11, 2024
<b>Condition of Sample</b>	Contained in two BOD bottles, five plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

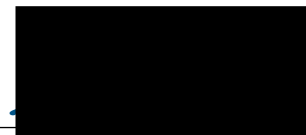
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	24000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Thanwa Jariya

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



Suwannee Chuamkeaw  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888678-1

Page 1 of 2

<b>Sample Number</b>	23143474-9
<b>Sampled Date</b>	Jan 11, 2024 9:37 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Jan 12, 2024
<b>Condition of Sample</b>	Contained in two BOD bottles, 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1896	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Thanwa Jariya ทะเบียนเลขที่ ว-204-จ-5414

Remark :

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

**Technical Management**

Siriluk Puengpang  
Section Head  
ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888678-1

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.

**Technical Management**



Siriluk Puengpang  
Section Head

ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888678-2

Page 1 of 1

<b>Sample Number</b>	23143474-9						
<b>Sampled Date</b>	Jan 11, 2024 9:37 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	Jan 12, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, 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>							
Dissolved Oxygen *	mg/L	-	0.1	6.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Thanwa Jariya

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



Siriluk Puengpang  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 23143474**

Date Received : Jan 11, 2024  
Date Reported : Jan 18, 2024  
Report Number : 2888678-3

Page 1 of 1

<b>Sample Number</b>	23143474-9
<b>Sampled Date</b>	Jan 11, 2024 9:37 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Jan 11, 2024
<b>Condition of Sample</b>	Contained in two BOD bottles, 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	-	-	4900.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Thanwa Jariya

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



Suwannee Chuamkeaw  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4540893399  
**Project Name :** Water Testing  
**Project Location:** คลังน้ำมันเซลล์ของนทรี

**TESTING**  
**No.0009**  
**Lot ID: 23143474**  
Date Received : Jan 11, 2024  
Date Reported : Jan 19, 2024  
Report Number : 2888674-1

Page 1 of 2

<b>Sample Number</b>	23143474-5						
<b>Sampled Date</b>	Jan 11, 2024 9:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 5						
<b>Date Analysis Commenced</b>	Jan 12, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, four 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1532	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Thanwa Jariya ทะเบียนเลขที่ ว-204-จ-5414

Remark :

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

Technical Management

Siriluk Puengpang  
Section Head  
ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888674-1

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.

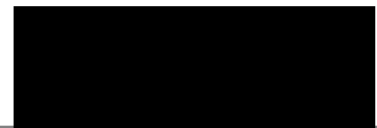
**Technical Management**



Siriluk Puengpang  
Section Head

ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**





## Analysis / Test Report

TESTING

No.0009

**Lot ID: 249250**

Date Received : Jan 25, 2024

Date Reported : Feb 01, 2024

Report Number : 2899568-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	249250-1						
<b>Sampled Date</b>	Jan 25, 2024 8:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Jan 26, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	36	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1096	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-7829

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 249250**

Date Received : Jan 25, 2024

Date Reported : Feb 01, 2024

Report Number : 2899568-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 249250**

Date Received : Jan 25, 2024

Date Reported : Jan 31, 2024

Report Number : 2899568-2

Page 1 of 1

<b>Sample Number</b>	249250-1						
<b>Sampled Date</b>	Jan 25, 2024 8:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Jan 26, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 249250**

Date Received : Jan 25, 2024

Date Reported : Feb 01, 2024

Report Number : 2899569-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	249250-2						
<b>Sampled Date</b>	Jan 25, 2024 8:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Jan 26, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	32	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	876	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-7829

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**  
**No.0009**

**Lot ID: 249250**

Date Received : Jan 25, 2024

Date Reported : Feb 01, 2024

Report Number : 2899569-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 249250**

Date Received : Jan 25, 2024

Date Reported : Jan 31, 2024

Report Number : 2899569-2

Page 1 of 1

<b>Sample Number</b>	249250-2						
<b>Sampled Date</b>	Jan 25, 2024 8:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Jan 26, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2417159**

Date Received : Feb 16, 2024

Date Reported : Feb 23, 2024

Report Number : 2919591-1

Page 1 of 2

<b>Sample Number</b>	2417159-3
<b>Sampled Date</b>	Feb 16, 2024 9:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Feb 16, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1176	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong ทะเบียนเลขที่ ว-204-จ-7828

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2417159**

Date Received : Feb 16, 2024

Date Reported : Feb 23, 2024

Report Number : 2919591-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2417159**

Date Received : Feb 16, 2024

Date Reported : Feb 23, 2024

Report Number : 2919591-2

Page 1 of 1

<b>Sample Number</b>	2417159-3						
<b>Sampled Date</b>	Feb 16, 2024 9:10 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Feb 19, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

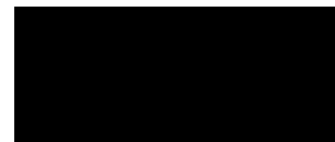
**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong

Remark :

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

Approved by



Siriluk Puengpang  
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.



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2417159**

Date Received : Feb 16, 2024  
Date Reported : Feb 23, 2024  
Report Number : 2919592-1

Page 1 of 1

**Sample Number** 2417159-4  
**Sampled Date** Feb 16, 2024 9:10 AM  
**Sample Description** Wastewater  
**Location** ระบบบำบัด  
**Date Analysis Commenced** Feb 17, 2024  
**Condition of Sample** Contained in one plastic 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	-	-	3300.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**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



Tuanjai Thangklang  
Manager

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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908906-1

Page 1 of 2

<b>Sample Number</b>	23146919-9						
<b>Sampled Date</b>	Feb 05, 2024 9:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	Feb 06, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, five amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	48	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	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
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2948	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Approved by



Sawitree Noisangiam  
Manager

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908906-1

Page 2 of 2

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Naruebet Permpoon

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



Sawitree Noisangiam  
Manager

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 23146919**

Date Received : Feb 05, 2024  
Date Reported : Feb 12, 2024  
Report Number : 2908906-2

Page 1 of 1

<b>Sample Number</b>	23146919-9
<b>Sampled Date</b>	Feb 05, 2024 9:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Feb 06, 2024
<b>Condition of Sample</b>	Contained in two BOD bottles, five amber glass bottle and four 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	-	-	330.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Naruebet Permpoon

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



Tuanjai Thangklang  
Manager

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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908902-1

Page 1 of 2

<b>Sample Number</b>	23146919-5						
<b>Sampled Date</b>	Feb 05, 2024 9:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 5						
<b>Date Analysis Commenced</b>	Feb 06, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.9	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	39	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	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
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2236	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Approved by

Sawitree Noisangiam  
Manager

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

231-371/ EMAIL

S:\Reports\All\_GL.rpt ( 4:31PM)



## Analysis / Test Report

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O** : 4540893399

**Project Name** : Water Testing

**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908902-1

Page 2 of 2

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By** : Naruebet Permpoon

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



Sawitree Noisangiam  
Manager

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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908903-1

Page 1 of 2

<b>Sample Number</b>	23146919-6						
<b>Sampled Date</b>	Feb 05, 2024 9:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Feb 06, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	52	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	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
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2692	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Approved by

Sawitree Noisangiam  
Manager

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

231-371/ EMAIL

S:\Reports\All\_GL.rpt ( 4:31PM)





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908903-1

Page 2 of 2

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Naruebet Permpoon

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



Sawitree Noisangiam  
Manager

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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908904-1

Page 1 of 2

<b>Sample Number</b>	23146919-7						
<b>Sampled Date</b>	Feb 05, 2024 9:15 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Feb 06, 2024						
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	43	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.5-9.0	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
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	832	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Approved by

Sawitree Noisangiam  
Manager

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

231-371/ EMAIL

S:\Reports\All\_GL.rpt ( 4:32PM)



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908904-1

Page 2 of 2

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Naruebet Permpoon

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



Sawitree Noisangiam  
Manager

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933737-1

Page 1 of 2

<b>Sample Number</b>	2425175-8
<b>Sampled Date</b>	Mar 05, 2024 9:21 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Mar 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	26	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	872	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-0083

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933737-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024  
Date Reported : Mar 12, 2024  
Report Number : 2933737-2

Page 1 of 1

<b>Sample Number</b>	2425175-8
<b>Sampled Date</b>	Mar 05, 2024 9:21 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Mar 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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	-	-	130.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Panupong Homewong

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



Sithichok Thongnguen  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933737-3

Page 1 of 1

<b>Sample Number</b>	2425175-8						
<b>Sampled Date</b>	Mar 05, 2024 9:21 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Mar 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933738-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2425175-9
<b>Sampled Date</b>	Mar 05, 2024 9:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Mar 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	30	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1180	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-0083

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933738-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024  
Date Reported : Mar 12, 2024  
Report Number : 2933738-2

Page 1 of 1

**Sample Number** 2425175-9  
**Sampled Date** Mar 05, 2024 9:10 AM  
**Sample Description** Wastewater  
**Location** บ่อ 4  
**Date Analysis Commenced** Mar 06, 2024  
**Condition of Sample** Contained in one amber glass bottle, two BOD bottles 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	-	-	2400.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Panupong Homewong

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



Sithichok Thongnguen  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933738-3

Page 1 of 1

<b>Sample Number</b>	2425175-9						
<b>Sampled Date</b>	Mar 05, 2024 9:10 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	Mar 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	8.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933734-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2425175-5
<b>Sampled Date</b>	Mar 05, 2024 8:43 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 5
<b>Date Analysis Commenced</b>	Mar 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	576	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-0083

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

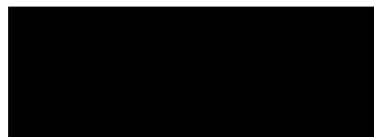
Date Reported : Mar 12, 2024

Report Number : 2933734-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933734-2

Page 1 of 1

<b>Sample Number</b>	2425175-5						
<b>Sampled Date</b>	Mar 05, 2024 8:43 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 5						
<b>Date Analysis Commenced</b>	Mar 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933735-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2425175-6
<b>Sampled Date</b>	Mar 05, 2024 8:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 7
<b>Date Analysis Commenced</b>	Mar 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	564	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-0083

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933735-1

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.

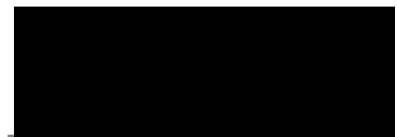
**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933735-2

Page 1 of 1

<b>Sample Number</b>	2425175-6						
<b>Sampled Date</b>	Mar 05, 2024 8:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Mar 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933736-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2425175-7
<b>Sampled Date</b>	Mar 05, 2024 8:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 9
<b>Date Analysis Commenced</b>	Mar 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	27	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1192	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong ทะเบียนเลขที่ ว-204-จ-0083

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933736-1

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.

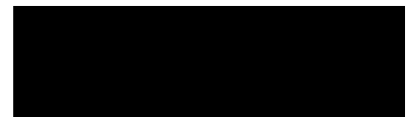
**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933736-2

Page 1 of 1

<b>Sample Number</b>	2425175-7						
<b>Sampled Date</b>	Mar 05, 2024 8:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Mar 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Panupong Homewong

Remark :

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

Approved by



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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965557-1

Page 1 of 2

<b>Sample Number</b>	2431728-8						
<b>Sampled Date</b>	Apr 05, 2024 9:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Apr 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	720	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

**Technical Management**



Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965557-1

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.

**Technical Management**



Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024  
Date Reported : Apr 12, 2024  
Report Number : 2965557-2

Page 1 of 1

<b>Sample Number</b>	2431728-8
<b>Sampled Date</b>	Apr 05, 2024 9:45 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Apr 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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	-	-	79.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Chulladet Warin

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



Tuanjai Thangklang  
Manager

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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965557-3

Page 1 of 1

<b>Sample Number</b>	2431728-8						
<b>Sampled Date</b>	Apr 05, 2024 9:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Apr 08, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	8.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



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.





## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965558-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2431728-9
<b>Sampled Date</b>	Apr 05, 2024 9:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Apr 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	816	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

**Technical Management**

Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965558-1

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.

**Technical Management**



Suwimon Chairuangwut  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024  
Date Reported : Apr 12, 2024  
Report Number : 2965558-2

Page 1 of 1

<b>Sample Number</b>	2431728-9
<b>Sampled Date</b>	Apr 05, 2024 9:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Apr 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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	-	-	700.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Chulladet Warin

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



Tuanjai Thangklang  
Manager

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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965558-3

Page 1 of 1

<b>Sample Number</b>	2431728-9						
<b>Sampled Date</b>	Apr 05, 2024 9:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	Apr 08, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	6.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

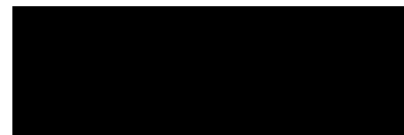
**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965554-1

Page 1 of 2

<b>Sample Number</b>	2431728-5
<b>Sampled Date</b>	Apr 05, 2024 9:25 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 5
<b>Date Analysis Commenced</b>	Apr 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three four bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	436	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

**Technical Management**

Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965554-1

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.

**Technical Management**



Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965554-2

Page 1 of 1

<b>Sample Number</b>	2431728-5						
<b>Sampled Date</b>	Apr 05, 2024 9:25 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 5						
<b>Date Analysis Commenced</b>	Apr 08, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three four 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>							
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965555-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2431728-6
<b>Sampled Date</b>	Apr 05, 2024 9:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 7
<b>Date Analysis Commenced</b>	Apr 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three four bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	692	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

Technical Management



Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

Approved by



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965555-1

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.

**Technical Management**

Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965555-2

Page 1 of 1

<b>Sample Number</b>	2431728-6						
<b>Sampled Date</b>	Apr 05, 2024 9:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Apr 08, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three four 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>							
Dissolved Oxygen	mg/L	-	0.1	6.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965556-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลส์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2431728-7
<b>Sampled Date</b>	Apr 05, 2024 9:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 9
<b>Date Analysis Commenced</b>	Apr 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	488	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

Technical Management



Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

Approved by



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965556-1

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.

**Technical Management**



Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-0018

**Approved by**



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965556-2

Page 1 of 1

<b>Sample Number</b>	2431728-7						
<b>Sampled Date</b>	Apr 05, 2024 9:15 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Apr 08, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4540893399  
**Project Name :** Water Testing  
**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**  
**No.0009**  
**Lot ID: 2441996**  
Date Received : May 03, 2024  
Date Reported : May 10, 2024  
Report Number : 2988024-1

Page 1 of 2

<b>Sample Number</b>	2441996-8						
<b>Sampled Date</b>	May 03, 2024 9:09 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	May 03, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1628	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager  
ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988024-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988024-2

Page 1 of 1

<b>Sample Number</b>	2441996-8						
<b>Sampled Date</b>	May 03, 2024 9:09 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	May 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by

Siriluk Bunnak  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024  
Date Reported : May 10, 2024  
Report Number : 2988024-3

Page 1 of 1

**Sample Number** : 2441996-8  
**Sampled Date** : May 03, 2024 9:09 AM  
**Sample Description** : Wastewater  
**Location** : ระบบบำบัด  
**Date Analysis Commenced** : May 04, 2024  
**Condition of Sample** : Contained in one amber glass bottle, two BOD bottles 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	-	-	79.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Chulladet Warin

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

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.

Sithichok Thongnguen  
Scientist (3)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988025-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลส์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2441996-9						
<b>Sampled Date</b>	May 03, 2024 8:57 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	May 03, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2356	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

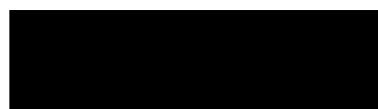
**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988025-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988025-2

Page 1 of 1

<b>Sample Number</b>	2441996-9						
<b>Sampled Date</b>	May 03, 2024 8:57 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	May 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by

Siriluk Bunnak  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024  
Date Reported : May 10, 2024  
Report Number : 2988025-3

Page 1 of 1

<b>Sample Number</b>	2441996-9
<b>Sampled Date</b>	May 03, 2024 8:57 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	May 04, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

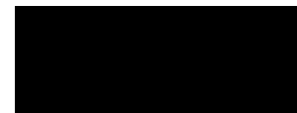
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Microbiological Testing</b>						
Total Coliform	MPN/100mL	-	-	1100.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**Sampling By** : Chulladet Warin

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



Sithichok Thongnguen  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลส์ของนทรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988021-1

Page 1 of 2

<b>Sample Number</b>	2441996-5
<b>Sampled Date</b>	May 03, 2024 8:48 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 5
<b>Date Analysis Commenced</b>	May 03, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1448	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

**Technical Management**

  
Sawitree Noisangiam  
Manager  
ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**

  
Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988021-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988021-2

Page 1 of 1

<b>Sample Number</b>	2441996-5						
<b>Sampled Date</b>	May 03, 2024 8:48 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 5						
<b>Date Analysis Commenced</b>	May 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



Siriluk Bunnak  
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.





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988022-1

Page 1 of 2

<b>Sample Number</b>	2441996-6
<b>Sampled Date</b>	May 03, 2024 8:45 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 7
<b>Date Analysis Commenced</b>	May 03, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2276	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988022-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988022-2

Page 1 of 1

<b>Sample Number</b>	2441996-6						
<b>Sampled Date</b>	May 03, 2024 8:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	May 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988023-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลส์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2441996-7						
<b>Sampled Date</b>	May 03, 2024 8:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	May 03, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1180	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-0029

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988023-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988023-2

Page 1 of 1

<b>Sample Number</b>	2441996-7						
<b>Sampled Date</b>	May 03, 2024 8:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	May 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Chulladet Warin

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020375-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2455671-8
<b>Sampled Date</b>	Jun 05, 2024 9:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Jun 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	328	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong ทะเบียนเลขที่ ว-204-จ-0082

Remark :

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

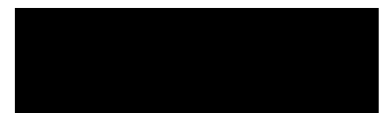
Technical Management



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020375-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020375-2

Page 1 of 1

<b>Sample Number</b>	2455671-8						
<b>Sampled Date</b>	Jun 05, 2024 9:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	ระบบบำบัด						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

TESTING  
No.0009

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4540893399  
**Project Name :** Water Testing  
**Project Location :** คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024  
Date Reported : Jun 11, 2024  
Report Number : 3020375-3

Page 1 of 1

<b>Sample Number</b>	2455671-8
<b>Sampled Date</b>	Jun 05, 2024 9:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ระบบบำบัด
<b>Date Analysis Commenced</b>	Jun 05, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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	-	-	24000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**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

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.

Suwannee Chuamkeaw  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020376-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลส์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2455671-9
<b>Sampled Date</b>	Jun 05, 2024 9:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Jun 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong ทะเบียนเลขที่ ว-204-จ-0082

Remark :

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

**Technical Management**

Sawitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**  
**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020376-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020376-2

Page 1 of 1

<b>Sample Number</b>	2455671-9						
<b>Sampled Date</b>	Jun 05, 2024 9:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 4						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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>							
Dissolved Oxygen	mg/L	-	0.1	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

TESTING  
No.0009

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4540893399  
**Project Name** : Water Testing  
**Project Location** : คลังน้ำมันเชลล์ชองนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024  
Date Reported : Jun 11, 2024  
Report Number : 3020376-3

Page 1 of 1

<b>Sample Number</b>	2455671-9
<b>Sampled Date</b>	Jun 05, 2024 9:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 4
<b>Date Analysis Commenced</b>	Jun 05, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles 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	-	-	7900.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok

**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



Suwannee Chuamkeaw  
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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020372-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2455671-5
<b>Sampled Date</b>	Jun 05, 2024 9:25 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 5
<b>Date Analysis Commenced</b>	Jun 06, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	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	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	272	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong ทะเบียนเลขที่ ว-204-จ-0082

Remark :

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

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**  
**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020372-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020372-2

Page 1 of 1

<b>Sample Number</b>	2455671-5						
<b>Sampled Date</b>	Jun 05, 2024 9:25 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 5						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4540893399  
**Project Name :** Water Testing  
**Project Location:** คลังน้ำมันเชลล์ของนทรี

**TESTING**  
**No.0009**  
**Lot ID: 2455671**  
Date Received : Jun 05, 2024  
Date Reported : Jun 11, 2024  
Report Number : 3020373-1

Page 1 of 2

<b>Sample Number</b>	2455671-6						
<b>Sampled Date</b>	Jun 05, 2024 9:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong ทะเบียนเลขที่ ว-204-จ-0082

Remark :

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

Technical Management



Sawitree Noisangiam  
Manager  
ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020373-1

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.

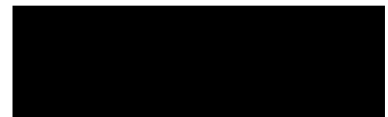
**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020373-2

Page 1 of 1

<b>Sample Number</b>	2455671-6						
<b>Sampled Date</b>	Jun 05, 2024 9:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 7						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020374-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเซลส์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2455671-7						
<b>Sampled Date</b>	Jun 05, 2024 9:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	228	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong ทะเบียนเลขที่ ว-204-จ-0082

Remark :

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

Technical Management

**Sawtree Noisangiam**  
Manager  
ทะเบียนเลขที่ ว-204-จ-0007

Approved by

**Kanokkorn Anek**  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020374-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020374-2

Page 1 of 1

<b>Sample Number</b>	2455671-7						
<b>Sampled Date</b>	Jun 05, 2024 9:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 9						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Pichai Boonyong

Remark :

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

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020375-1

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.

**Technical Management**



Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-0007

**Approved by**



Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

**Life Sciences**

**www.alsglobal.com**

**RIGHT SOLUTIONS RIGHT PARTNER**



## ภาคผนวก ค-2

---

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888670-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	23143474-1
<b>Sampled Date</b>	Jan 11, 2024 9:39 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	ท่าเรือ1
<b>Date Analysis Commenced</b>	Jan 12, 2024
<b>Condition of Sample</b>	Contained in two BOD bottles, three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	2.8	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	34	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	6.6	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	14080	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	58	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Thanwa Jariya

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.

Approved by



Siriluk Puengpang  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888670-1

Page 2 of 2

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

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

**Approved by**



Siriluk Puenggang  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

Report Number : 2888671-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	23143474-2					
<b>Sampled Date</b>	Jan 11, 2024 9:00 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ4					
<b>Date Analysis Commenced</b>	Jan 12, 2024					
<b>Condition of Sample</b>	Contained in two BOD bottles, three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	2.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	<25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	6.6	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	13060	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	42	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Thanwa Jariya

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.

Approved by



Siriluk Puengpang  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23143474**

Date Received : Jan 11, 2024

Date Reported : Jan 19, 2024

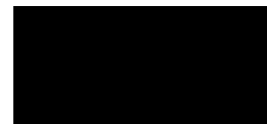
Report Number : 2888671-1

Page 2 of 2

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

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

**Approved by**



Siriluk Puengpang  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908898-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	23146919-1					
<b>Sampled Date</b>	Feb 05, 2024 9:55 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ 1					
<b>Date Analysis Commenced</b>	Feb 06, 2024					
<b>Condition of Sample</b>	Contained in two BOD bottles, one amber glass bottle and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	5.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	272	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	2.8	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	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		-	-	7.1	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	10940	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Naruebet Permpoon

Remark :

- LOD : Limit of Detection

Approved by

Siriluk Puengpang  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 23146919**

Date Received : Feb 05, 2024

Date Reported : Feb 12, 2024

Report Number : 2908898-1

Page 2 of 2

- "<" : 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



Siriluk Puengpang  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2417159**

Date Received : Feb 16, 2024

Date Reported : Feb 23, 2024

Report Number : 2919590-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2417159-2					
<b>Sampled Date</b>	Feb 16, 2024 8:50 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ4					
<b>Date Analysis Commenced</b>	Feb 16, 2024					
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	4.6	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	221	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.6	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	9540	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	36	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**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.

Approved by

Siriluk Puengpang  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2417159**

Date Received : Feb 16, 2024

Date Reported : Feb 23, 2024

Report Number : 2919590-1

Page 2 of 2

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

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

**Approved by**



Siriluk Puenggang  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933730-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2425175-1					
<b>Sampled Date</b>	Mar 05, 2024 9:13 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ1					
<b>Date Analysis Commenced</b>	Mar 06, 2024					
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	3.7	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	91	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.5	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	9300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	10	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Panupong Homewong

Remark :

- LOD : Limit of Detection

Approved by



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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933730-1

Page 2 of 2

- "<" : 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 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933731-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2425175-2					
<b>Sampled Date</b>	Mar 05, 2024 8:30 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ4					
<b>Date Analysis Commenced</b>	Mar 06, 2024					
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	3.9	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	92	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	9940	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Panupong Homewong

Remark :

- LOD : Limit of Detection

Approved by



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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2425175**

Date Received : Mar 05, 2024

Date Reported : Mar 12, 2024

Report Number : 2933731-1

Page 2 of 2

- "<" : 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 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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965550-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2431728-1						
<b>Sampled Date</b>	Apr 05, 2024 9:35 AM						
<b>Sample Description</b>	Natural Water						
<b>Location</b>	ท่าเรือ 1						
<b>Date Analysis Commenced</b>	Apr 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	3.4	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	9220	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Chulladet Warin

Remark :

- LOD : Limit of Detection

Approved by



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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965550-1

Page 2 of 2

- "<" : 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 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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965551-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2431728-2					
<b>Sampled Date</b>	Apr 05, 2024 9:07 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ4					
<b>Date Analysis Commenced</b>	Apr 06, 2024					
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	3.6	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	52	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.7	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	9220	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Chulladet Warin

Remark :

- LOD : Limit of Detection

Approved by



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.





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2431728**

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2965551-1

Page 2 of 2

- "<" : 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 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.



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988017-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2441996-1
<b>Sampled Date</b>	May 03, 2024 8:53 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	ท่าเรือ1
<b>Date Analysis Commenced</b>	May 03, 2024
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	91	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	14660	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Chulladet Warin

Remark :

- LOD : Limit of Detection

Approved by

Siriluk Bunnak  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988017-1

Page 2 of 2

- "<" : 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



Siriluk Bunnak  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988018-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2441996-2						
<b>Sampled Date</b>	May 03, 2024 8:39 AM						
<b>Sample Description</b>	Natural Water						
<b>Location</b>	ท่าเรือ4						
<b>Date Analysis Commenced</b>	May 03, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	164	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	17200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	44	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Chulladet Warin

Remark :

- LOD : Limit of Detection

Approved by

Siriluk Bunnak  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2441996**

Date Received : May 03, 2024

Date Reported : May 10, 2024

Report Number : 2988018-1

Page 2 of 2

- "<" : 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

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.

Siriluk Bunnak  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020368-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนทรี

Page 1 of 2

<b>Sample Number</b>	2455671-1						
<b>Sampled Date</b>	Jun 05, 2024 9:30 AM						
<b>Sample Description</b>	Natural Water						
<b>Location</b>	ท่าเรือ1						
<b>Date Analysis Commenced</b>	Jun 06, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	51	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	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		-	-	7.0	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	336	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Pichai Boonyong

Remark :

- LOD : Limit of Detection

Approved by



Siriluk Bunnak  
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.



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020368-1

Page 2 of 2

- "<" : 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

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.

Siriluk Bunnak  
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2455671**

Date Received : Jun 05, 2024

Date Reported : Jun 11, 2024

Report Number : 3020369-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ของนนทบุรี

Page 1 of 2

<b>Sample Number</b>	2455671-2					
<b>Sampled Date</b>	Jun 05, 2024 9:10 AM					
<b>Sample Description</b>	Natural Water					
<b>Location</b>	ท่าเรือ4					
<b>Date Analysis Commenced</b>	Jun 06, 2024					
<b>Condition of Sample</b>	Contained in one amber glass bottle, two BOD bottles and three 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	95	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	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		-	-	7.0	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
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	308	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	373	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Pichai Boonyong

Remark :

- LOD : Limit of Detection

Approved by



Siriluk Bunnak  
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.





## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4540893399

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ชองนนทบุรี

**TESTING**

**No.0009**

**Lot ID: 2455671**

Date Received : Jun 05, 2024

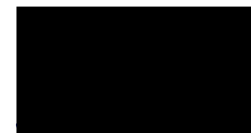
Date Reported : Jun 11, 2024

Report Number : 3020369-1

Page 2 of 2

- "<" : 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



Siriluk Bunnak  
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.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER