

## ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

## ภาคผนวก ค-1

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ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375190-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-1
<b>Sampled Date</b>	Jul 07, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and two 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	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	132	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

Remark :

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Approved by

*Nant Somb*

Nanthawadee Somboon  
Specialist 1

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375190-2

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-1
<b>Sampled Date</b>	Jul 07, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and two 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	0.0009	≤0.2	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375191-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-2
<b>Sampled Date</b>	Jul 07, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and two 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	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	252	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Approved by

*Nant Somb*

Nanthawadee Somboon  
Specialist 1

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No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375191-2

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-2
<b>Sampled Date</b>	Jul 07, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and two 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	Based on APHA (2017), 3125	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).

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Sawitree Noisangiam  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375192-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-3
<b>Sampled Date</b>	Jul 07, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and two 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	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	312	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375192-2

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-3
<b>Sampled Date</b>	Jul 07, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and two 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	0.0009	≤0.2	Based on APHA (2017), 3125	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).

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2278958**

Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402076-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-1
<b>Sampled Date</b>	Aug 04, 2022 7:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Aug 05, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	160	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Siriluk Puengpang  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2278958**

Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402076-2

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-1						
<b>Sampled Date</b>	Aug 04, 2022 7:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 1						
<b>Date Analysis Commenced</b>	Aug 05, 2022						
<b>Condition of Sample</b>	Contained in 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	0.0007	≤0.2	Based on APHA (2017), 3125	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).

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Report Number : 2402077-1

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**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-2
<b>Sampled Date</b>	Aug 04, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Aug 05, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	276	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 2540 D	Bangkok

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Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402077-2

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-2						
<b>Sampled Date</b>	Aug 04, 2022 8:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 2						
<b>Date Analysis Commenced</b>	Aug 05, 2022						
<b>Condition of Sample</b>	Contained in 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	0.0006	≤0.2	Based on APHA (2017), 3125	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).

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2278958**

Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402078-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-3
<b>Sampled Date</b>	Aug 04, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Aug 05, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	372	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2278958**

Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402078-2

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-3						
<b>Sampled Date</b>	Aug 04, 2022 8:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 3						
<b>Date Analysis Commenced</b>	Aug 05, 2022						
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433229-1

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-1
<b>Sampled Date</b>	Sep 06, 2022 7:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	8	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	316	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING  
No.0009

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433229-2

Page 1 of 1

<b>Sample Number</b>	2287303-1
<b>Sampled Date</b>	Sep 06, 2022 7:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433230-1

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-2
<b>Sampled Date</b>	Sep 06, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	6	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	332	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433230-2

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-2
<b>Sampled Date</b>	Sep 06, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433231-1

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-3
<b>Sampled Date</b>	Sep 06, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433231-2

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-3
<b>Sampled Date</b>	Sep 06, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461939-1

Page 1 of 1

<b>Sample Number</b>	22107709-1
<b>Sampled Date</b>	Oct 06, 2022 9:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	12	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	284	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Approved by

Narin Saiseng  
Supervisor



## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461939-2

Page 1 of 1

<b>Sample Number</b>	22107709-1
<b>Sampled Date</b>	Oct 06, 2022 9:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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	0.0007	≤0.2	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461940-1

Page 1 of 1

<b>Sample Number</b>	22107709-2
<b>Sampled Date</b>	Oct 06, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	220	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

Remark :

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Approved by

Narin Saiseng  
Supervisor



## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461940-2

Page 1 of 1

<b>Sample Number</b>	22107709-2
<b>Sampled Date</b>	Oct 06, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461941-1

Page 1 of 1

<b>Sample Number</b>	22107709-3
<b>Sampled Date</b>	Oct 06, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	156	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Narin Saiseng  
Supervisor



## Analysis / Test Report

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**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461941-2

Page 1 of 1

<b>Sample Number</b>	22107709-3
<b>Sampled Date</b>	Oct 06, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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*Savitree N.*

Savitree Noisangiam  
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## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493578-1

Page 1 of 1

<b>Sample Number</b>	22120381-1
<b>Sampled Date</b>	Nov 08, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1264	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Approved by

Narin Saiseng  
Supervisor



## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493578-2

Page 1 of 1

<b>Sample Number</b>	22120381-1
<b>Sampled Date</b>	Nov 08, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493579-1

Page 1 of 1

<b>Sample Number</b>	22120381-2
<b>Sampled Date</b>	Nov 08, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	272	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Narin Saiseng  
Supervisor



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493579-2

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	22120381-2
<b>Sampled Date</b>	Nov 08, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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	0.0009	≤0.2	Based on APHA (2017), 3125	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).

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493580-1

Page 1 of 1

<b>Sample Number</b>	22120381-3
<b>Sampled Date</b>	Nov 08, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	456	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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).

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Narin Saiseng  
Supervisor



## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493580-2

Page 1 of 1

<b>Sample Number</b>	22120381-3
<b>Sampled Date</b>	Nov 08, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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	Based on APHA (2017), 3125	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).

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**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521916-1

Page 1 of 1

<b>Sample Number</b>	22130830-1
<b>Sampled Date</b>	Dec 06, 2022 8:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Bangkok
COD	mg/L	1.5	5	17	≤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	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	116	≤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).

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521916-2

Page 1 of 1

<b>Sample Number</b>	22130830-1
<b>Sampled Date</b>	Dec 06, 2022 8:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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	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

**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).

Remark :

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521917-1

Page 1 of 1

<b>Sample Number</b>	22130830-2
<b>Sampled Date</b>	Dec 06, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Bangkok
COD	mg/L	1.5	5	10	≤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	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	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).

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor



## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521917-2

Page 1 of 1

<b>Sample Number</b>	22130830-2						
<b>Sampled Date</b>	Dec 06, 2022 7:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 2						
<b>Date Analysis Commenced</b>	Dec 09, 2022						
<b>Condition of Sample</b>	Contained in 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	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

**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).

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*Savitree N.*

Savitree Noisangiam  
Manager

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## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521918-1

Page 1 of 1

<b>Sample Number</b>	22130830-3
<b>Sampled Date</b>	Dec 06, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Bangkok
COD	mg/L	1.5	5	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	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	220	≤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).

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Approved by

*Siriluk P.*

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521918-2

Page 1 of 1

<b>Sample Number</b>	22130830-3
<b>Sampled Date</b>	Dec 06, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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	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

**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).

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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## ภาคผนวก ค-2

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ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375193-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-4
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in 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	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	10	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1740	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	26	No Standard	Based on APHA (2017), 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 3)

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

n : Not Change from natural condition

Remark :

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Approved by

*Nant Somb*

Nanthawadee Somboon  
Specialist 1

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2272493**

Date Received : Jul 07, 2022

Date Reported : Jul 15, 2022

Report Number : 2375194-1

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

**P/O** : 4538578572\_Item100

**Project Name** : Water Testing

**Project Location** : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2272493-5
<b>Sampled Date</b>	Jul 07, 2022 8:30 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Jul 08, 2022
<b>Condition of Sample</b>	Contained in 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	2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	19	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	3540	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	16	No Standard	Based on APHA (2017), 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 3)

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n : Not Change from natural condition

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Approved by

*Nant Somb*

Nanthawadee Somboon  
Specialist 1



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2278958**

Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402079-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-4
<b>Sampled Date</b>	Aug 04, 2022 4:30 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Aug 05, 2022
<b>Condition of Sample</b>	Contained in 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	2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	22	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	260	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	82	No Standard	Based on APHA (2017), 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 3)

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

n : Not Change from natural condition

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2278958**

Date Received : Aug 04, 2022

Date Reported : Aug 11, 2022

Report Number : 2402080-1

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

**P/O :** 4538578572\_Item100

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2278958-5
<b>Sampled Date</b>	Aug 04, 2022 8:30 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Aug 05, 2022
<b>Condition of Sample</b>	Contained in 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	2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	<5	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	<5	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	13	No Standard	Based on APHA (2017), 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 3)

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

n : Not Change from natural condition

Remark :

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Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433232-1

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-4
<b>Sampled Date</b>	Sep 06, 2022 4:30 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	10	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1360	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	13	No Standard	Based on APHA (2017), 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 3)

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

n : Not Change from natural condition

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2287303**

Date Received : Sep 06, 2022

Date Reported : Sep 13, 2022

Report Number : 2433233-1

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

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2287303-5
<b>Sampled Date</b>	Sep 06, 2022 8:30 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Sep 07, 2022
<b>Condition of Sample</b>	Contained in 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	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	9	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	540	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	24	No Standard	Based on APHA (2017), 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 3)

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461942-1

Page 1 of 1

<b>Sample Number</b>	22107709-4
<b>Sampled Date</b>	Oct 05, 2022 2:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	12	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	600	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	38	No Standard	Based on APHA (2017), 2540 D	Bangkok

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Approved by

Narin Saiseng  
Supervisor



## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22107709**

Date Received : Oct 06, 2022

Date Reported : Oct 12, 2022

Report Number : 2461943-1

Page 1 of 1

<b>Sample Number</b>	22107709-5
<b>Sampled Date</b>	Oct 06, 2022 8:00 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Oct 07, 2022
<b>Condition of Sample</b>	Contained in 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	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	12	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	320	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	54	No Standard	Based on APHA (2017), 2540 D	Bangkok

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## Analysis / Test Report

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**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493581-1

Page 1 of 1

<b>Sample Number</b>	22120381-4
<b>Sampled Date</b>	Nov 07, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	13	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7740	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	10	No Standard	Based on APHA (2017), 2540 D	Bangkok

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## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22120381**

Date Received : Nov 08, 2022

Date Reported : Nov 16, 2022

Report Number : 2493582-1

Page 1 of 1

<b>Sample Number</b>	22120381-5
<b>Sampled Date</b>	Nov 08, 2022 9:00 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Nov 09, 2022
<b>Condition of Sample</b>	Contained in 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>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	20	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	13920	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	9	No Standard	Based on APHA (2017), 2540 D	Bangkok

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Supervisor



## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521919-1

Page 1 of 1

<b>Sample Number</b>	22130830-4
<b>Sampled Date</b>	Dec 06, 2022 7:40 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	3	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Bangkok
COD	mg/L	1.5	5	25	No Standard	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	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	20980	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	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4538578572

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 22130830**

Date Received : Dec 08, 2022

Date Reported : Dec 15, 2022

Report Number : 2521920-1

Page 1 of 1

<b>Sample Number</b>	22130830-5
<b>Sampled Date</b>	Dec 07, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Dec 09, 2022
<b>Condition of Sample</b>	Contained in 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>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	2	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Bangkok
COD *	mg/L	1.5	5	46	No Standard	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	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	10060	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	18	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Supervisor

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