

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

Page 4 of 8

Sample Number	21138546-4
Sampled Date	Jan 13, 2022 11:25 AM
Sample Description	Wastewater
Location	Oil Interceptor
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	26	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	432	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	23	≤50	APHA (2017), 2540 D	Songkhla

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 :

- 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

Sutthirak T.

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Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

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Sample Number	21138546-5
Sampled Date	Jan 13, 2022 11:35 AM
Sample Description	Wastewater
Location	Bitumen
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	10	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	6.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	456	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	18	≤50	APHA (2017), 2540 D	Songkhla

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Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

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Sample Number	21138546-6
Sampled Date	Jan 13, 2022 11:45 AM
Sample Description	Wastewater
Location	Office
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	12	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	460	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	6	≤50	APHA (2017), 2540 D	Songkhla

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 : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

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Sample Number	21138546-7
Sampled Date	Jan 13, 2022 11:55 AM
Sample Description	Wastewater
Location	พชร. เข้า
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	15	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	428	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	20	≤50	APHA (2017), 2540 D	Songkhla

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

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Sample Number	21138546-8
Sampled Date	Jan 13, 2022 12:10 PM
Sample Description	Wastewater
Location	พชร. ออ
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	22	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	460	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	18	≤50	APHA (2017), 2540 D	Songkhla

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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No.0166

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

Page 4 of 8

Sample Number	21142659-4
Sampled Date	Feb 09, 2022 10:00 AM
Sample Description	Wastewater
Location	Oil Interceptor
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	6	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	276	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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Approved by

Preetiya P.

Preetiya Pongpam
Scientist (1)

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

Page 5 of 8

Sample Number	21142659-5
Sampled Date	Feb 09, 2022 10:10 AM
Sample Description	Wastewater
Location	Bitumen
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	6	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	268	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

Page 6 of 8

Sample Number	21142659-6
Sampled Date	Feb 09, 2022 10:20 AM
Sample Description	Wastewater
Location	Office
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	6	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	268	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

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Sample Number	21142659-7
Sampled Date	Feb 09, 2022 10:30 AM
Sample Description	Wastewater
Location	พชร. เข้า
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	11	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	260	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

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Sample Number	21142659-8
Sampled Date	Feb 09, 2022 10:40 AM
Sample Description	Wastewater
Location	พชร. ออ
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	11	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	300	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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Preetiya P.

Preetiya Pongpam
Scientist (1)

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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

Page 4 of 8

Sample Number	2214697-4
Sampled Date	Mar 10, 2022 10:45 AM
Sample Description	Wastewater
Location	Oil Interceptor
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	31	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	676	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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

Sutthirak T.

Sutthirak Tiprat
Scientist (1)

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TESTING
No.0166

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

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Sample Number	2214697-5
Sampled Date	Mar 10, 2022 10:55 AM
Sample Description	Wastewater
Location	Bitumen
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	34	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	708	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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 : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

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Sample Number	2214697-6
Sampled Date	Mar 10, 2022 11:10 AM
Sample Description	Wastewater
Location	Office
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	22	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	684	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

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Sample Number	2214697-7
Sampled Date	Mar 10, 2022 11:20 AM
Sample Description	Wastewater
Location	พชร. เข้
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	40	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	680	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

Page 8 of 8

Sample Number	2214697-8
Sampled Date	Mar 10, 2022 11:35 AM
Sample Description	Wastewater
Location	พชร. ออ
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	44	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	664	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 4 of 8

Sample Number	2224089-4
Sampled Date	Apr 04, 2022 9:50 AM
Sample Description	Wastewater
Location	Oil Interceptor
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	11	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	192	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 5 of 8

Sample Number	2224089-5
Sampled Date	Apr 04, 2022 9:30 AM
Sample Description	Wastewater
Location	Bitumen
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	11	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	83	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	7	≤50	APHA (2017), 2540 D	Songkhla

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 6 of 8

Sample Number	2224089-6
Sampled Date	Apr 04, 2022 9:50 AM
Sample Description	Wastewater
Location	Office
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	8	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	78	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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No.0166

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 7 of 8

Sample Number	2224089-7
Sampled Date	Apr 04, 2022 9:20 AM
Sample Description	Wastewater
Location	พชร. เข้า
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	9	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	93	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	10	≤50	APHA (2017), 2540 D	Songkhla

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 : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 8 of 8

Sample Number	2224089-8
Sampled Date	Apr 04, 2022 9:35 AM
Sample Description	Wastewater
Location	พชร. ออ
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	9	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	88	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	8	≤50	APHA (2017), 2540 D	Songkhla

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.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

Page 4 of 8

Sample Number	2246857-4
Sampled Date	May 05, 2022 9:10 AM
Sample Description	Wastewater
Location	Oil Interceptor
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	18	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	152	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

Page 5 of 8

Sample Number	2246857-5
Sampled Date	May 05, 2022 9:20 AM
Sample Description	Wastewater
Location	Bitumen
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	21	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	102	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	7	≤50	APHA (2017), 2540 D	Songkhla

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 : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

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Sample Number	2246857-6
Sampled Date	May 05, 2022 9:30 AM
Sample Description	Wastewater
Location	Office
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	15	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	132	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

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Sample Number	2246857-7
Sampled Date	May 05, 2022 9:50 AM
Sample Description	Wastewater
Location	พชร. เข้า
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	16	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	110	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	10	≤50	APHA (2017), 2540 D	Songkhla

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

Page 8 of 8

Sample Number	2246857-8
Sampled Date	May 05, 2022 9:40 AM
Sample Description	Wastewater
Location	พชร. ออ
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	15	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	102	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	7	≤50	APHA (2017), 2540 D	Songkhla

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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 4 of 8

Sample Number	21114851-4
Sampled Date	Jun 02, 2022 9:20 AM
Sample Description	Wastewater
Location	Oil Interceptor
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	12	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	408	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 5 of 8

Sample Number	21114851-5
Sampled Date	Jun 02, 2022 9:35 AM
Sample Description	Wastewater
Location	Bitumen
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	11	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	162	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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No.0166

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 6 of 8

Sample Number	21114851-6
Sampled Date	Jun 02, 2022 9:45 AM
Sample Description	Wastewater
Location	Office
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	14	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	162	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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No.0166

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 7 of 8

Sample Number	21114851-7
Sampled Date	Jun 02, 2022 9:50 AM
Sample Description	Wastewater
Location	พชร. เข้า
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	12	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	210	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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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Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 8 of 8

Sample Number	21114851-8
Sampled Date	Jun 02, 2022 10:00 AM
Sample Description	Wastewater
Location	พชร. ออ
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	13	≤120	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	8.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	196	≤3000	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Songkhla

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 :

- 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

Sutthirak T.

Sutthirak Tiprat
Scientist (2)

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ภาคผนวก ค-2

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

Page 1 of 8

Sample Number	21138546-1
Sampled Date	Jan 13, 2022 10:40 AM
Sample Description	Natural Water
Location	Jetty-1
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	19	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.3	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	3025	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	8	No Standard	APHA (2017), 2540 D	Songkhla

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

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Sutthirak Tiprat
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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

Page 2 of 8

Sample Number	21138546-2
Sampled Date	Jan 13, 2022 10:55 AM
Sample Description	Natural Water
Location	Jetty-2
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	20	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.3	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	3100	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	8	No Standard	APHA (2017), 2540 D	Songkhla

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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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21138546

Date Received : Jan 14, 2022

Date Reported : Jan 20, 2022

Report Number : 2157380-1

Page 3 of 8

Sample Number	21138546-3
Sampled Date	Jan 13, 2022 11:10 AM
Sample Description	Natural Water
Location	Jetty-3
Date Analysis Commenced	Jan 14, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	18	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	3165	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	6	No Standard	APHA (2017), 2540 D	Songkhla

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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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

Page 1 of 8

Sample Number	21142659-1
Sampled Date	Feb 09, 2022 9:30 AM
Sample Description	Natural Water
Location	Jetty-1
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD *	mg/L	-	5	48	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	10560	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids *	mg/L	-	5	5	No Standard	APHA (2017), 2540 D	Songkhla

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

Preetiya P.

Preetiya Pongpam
Scientist (1)

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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

Page 2 of 8

Sample Number	21142659-2
Sampled Date	Feb 09, 2022 9:40 AM
Sample Description	Natural Water
Location	Jetty-2
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD *	mg/L	-	5	48	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	10800	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids *	mg/L	-	5	5	No Standard	APHA (2017), 2540 D	Songkhla

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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Preetiya Pongpam
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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21142659

Date Received : Feb 10, 2022

Date Reported : Feb 17, 2022

Report Number : 2166457-1

Page 3 of 8

Sample Number	21142659-3
Sampled Date	Feb 09, 2022 9:50 AM
Sample Description	Natural Water
Location	Jetty-3
Date Analysis Commenced	Feb 10, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD *	mg/L	-	5	46	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	10700	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids *	mg/L	-	5	6	No Standard	APHA (2017), 2540 D	Songkhla

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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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

Page 1 of 8

Sample Number	2214697-1
Sampled Date	Mar 10, 2022 10:00 AM
Sample Description	Natural Water
Location	Jetty-1
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD *	mg/L	-	5	46	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7200	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids *	mg/L	-	5	<5	No Standard	APHA (2017), 2540 D	Songkhla

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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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

Page 2 of 8

Sample Number	2214697-2
Sampled Date	Mar 10, 2022 10:15 AM
Sample Description	Natural Water
Location	Jetty-2
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD *	mg/L	-	5	46	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7350	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids *	mg/L	-	5	<5	No Standard	APHA (2017), 2540 D	Songkhla

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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TESTING
No.0166

Client : The Shell Company of Thailand Limited
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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2214697

Date Received : Mar 11, 2022

Date Reported : Mar 17, 2022

Report Number : 2220995-1

Page 3 of 8

Sample Number	2214697-3
Sampled Date	Mar 10, 2022 10:30 AM
Sample Description	Natural Water
Location	Jetty-3
Date Analysis Commenced	Mar 11, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD *	mg/L	-	5	51	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7800	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids *	mg/L	-	5	<5	No Standard	APHA (2017), 2540 D	Songkhla

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

Sutthirak T.

Sutthirak Tiprat
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Analysis / Test Report

TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 1 of 8

Sample Number	2224089-1
Sampled Date	Apr 04, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-1
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	21	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1995	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	38	No Standard	APHA (2017), 2540 D	Songkhla

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No.0166

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 2 of 8

Sample Number	2224089-2
Sampled Date	Apr 04, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-2
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	24	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1905	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	40	No Standard	APHA (2017), 2540 D	Songkhla

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2224089

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number : 2240301-1

Page 3 of 8

Sample Number	2224089-3
Sampled Date	Apr 04, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-3
Date Analysis Commenced	Apr 05, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	22	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2090	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	30	No Standard	APHA (2017), 2540 D	Songkhla

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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

Page 1 of 8

Sample Number	2246857-1
Sampled Date	May 05, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-1
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	14	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	652	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	36	No Standard	APHA (2017), 2540 D	Songkhla

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

Page 2 of 8

Sample Number	2246857-2
Sampled Date	May 05, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-2
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	11	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	648	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	36	No Standard	APHA (2017), 2540 D	Songkhla

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 2246857

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2289565-1

Page 3 of 8

Sample Number	2246857-3
Sampled Date	May 05, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-3
Date Analysis Commenced	May 06, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	24	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	656	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	41	No Standard	APHA (2017), 2540 D	Songkhla

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P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 1 of 8

Sample Number	21114851-1
Sampled Date	Jun 02, 2022 9:15 AM
Sample Description	Natural Water
Location	Jetty-1
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	24	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2740	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	48	No Standard	APHA (2017), 2540 D	Songkhla

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TESTING
No.0166

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

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 2 of 8

Sample Number	21114851-2
Sampled Date	Jun 02, 2022 9:10 AM
Sample Description	Natural Water
Location	Jetty-2
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	26	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2707	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	45	No Standard	APHA (2017), 2540 D	Songkhla

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No.0166

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

P/O : 4535076864

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Lot ID: 21114851

Date Received : Jun 03, 2022

Date Reported : Jun 10, 2022

Report Number : 2106117-1

Page 3 of 8

Sample Number	21114851-3
Sampled Date	Jun 02, 2022 9:00 AM
Sample Description	Natural Water
Location	Jetty-3
Date Analysis Commenced	Jun 03, 2022
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Songkhla
COD	mg/L	-	5	31	No Standard	Based on APHA (2017), 5220 D	Songkhla
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2787	No Standard	APHA (2017), 2540 C	Songkhla
Total Suspended Solids	mg/L	-	5	47	No Standard	APHA (2017), 2540 D	Songkhla

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ภาคผนวก ค-3

ผลการตรวจวัดคุณภาพอากาศอากาศในบรรยากาศ



Analysis / Test Report

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

P/O : 4537869301

Project Name :

Project Location : BDN Depot / Suratthani

Lot ID: 2236573

Date Received : Mar 25, 2022

Date Reported : Mar 31, 2022

Report Number : 2275197-2

Page 1 of 1

Sample Number 2236573-1
Sampled Date Mar 23, 2022
Sample Description Air Quality
Location BDN Gantry
Date Analysis Commenced Mar 28, 2022
Condition of Sample Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzene	23/03/22 - 24/03/22	ug/m3	0.05	0.16	5.24	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Thanit Janjop

Remark :

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

Approved by

Dej Changchon
Senior Manager

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Project Name :
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Lot ID: 2236573

Date Received : Mar 25, 2022
Date Reported : Apr 04, 2022
Report Number : 2275197-3

Page 1 of 1

Sample Number 2236573-1
Sampled Date Mar 23, 2022
Sample Description Air Quality
Location BDN Gantry
Date Analysis Commenced Mar 28, 2022
Condition of Sample Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon	11:00 AM - 07:00 PM	ppm	-	-	5.2	No Standard	EPA 40 CFR Part 50	-	Bangkok

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Sararat Mongkonjirawut
Scientist (4)



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P/O : 4537869301

Project Name :

Project Location : BDN Depot / Suratthani

Lot ID: 2236573

Date Received : Mar 25, 2022

Date Reported : Mar 31, 2022

Report Number : 2275198-2

Page 1 of 1

Sample Number 2236573-2
Sampled Date Mar 23, 2022
Sample Description Air Quality
Location Bitumen Gantry
Date Analysis Commenced Mar 28, 2022
Condition of Sample Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzene	23/03/22 - 24/03/22	ug/m3	0.05	0.16	1.66	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Guideline :

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Project Location : BDN Depot / Suratthani

Lot ID: 2236573

Date Received : Mar 25, 2022
Date Reported : Apr 04, 2022
Report Number : 2275198-3

Page 1 of 1

Sample Number 2236573-2
Sampled Date Mar 23, 2022
Sample Description Air Quality
Location Bitumen Gantry
Date Analysis Commenced Mar 28, 2022
Condition of Sample Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon	10:30 AM - 06:30 PM	ppm	-	-	5.4	No Standard	EPA 40 CFR Part 50	-	Bangkok

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Sararat Mongkonjirawut
Scientist (4)



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P/O : 4537869301

Project Name :

Project Location : BDN Depot / Suratthani

Lot ID: 2236573

Date Received : Mar 25, 2022

Date Reported : Mar 31, 2022

Report Number : 2275199-2

Page 1 of 1

Sample Number 2236573-3
Sampled Date Mar 23, 2022
Sample Description Air Quality
Location Suntisuk School
Date Analysis Commenced Mar 28, 2022
Condition of Sample Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Benzene	23/03/22 - 24/03/22	ug/m3	0.05	0.16	0.51	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Guideline :

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Lot ID: 2236573

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Date Reported : Apr 04, 2022

Report Number : 2275199-3

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Sample Number 2236573-3
Sampled Date Mar 23, 2022
Sample Description Air Quality
Location Suntisuk School
Date Analysis Commenced Mar 28, 2022
Condition of Sample Drawn into one 6-L Canister and one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon	11:30 AM - 07:30 PM	ppm	-	-	5.8	No Standard	EPA 40 CFR Part 50	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

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