

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0042

Lot ID: 23147539

Date Received : Jan 16, 2024

Date Reported : Jan 24, 2024

Report Number : 2873038-1

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23147539-1
Sampled Date	Jan 16, 2024 9:21 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Jan 16, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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	-	2.0	3.1	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	35	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	19	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	572	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banhongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 23147539

Date Received : Jan 16, 2024

Date Reported : Jan 24, 2024

Report Number : 2873038-1

Page 2 of 2

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

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

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.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23147539

Date Received : Jan 16, 2024

Date Reported : Jan 24, 2024

Report Number : 2873038-2

Page 1 of 1

Sample Number	23147539-1
Sampled Date	Jan 16, 2024 9:21 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Jan 18, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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							
Total Organic Carbon	mg/L	0.01	0.1	12.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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Approved by

Siriluk P.

Siriluk Puenggang
Section Head

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8525-21/ EMAIL

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Analysis / Test Report

TESTING

No.0042

Lot ID: 23147875

Date Received : Feb 07, 2024

Date Reported : Feb 15, 2024

Report Number : 2873672-1

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23147875-1
Sampled Date	Feb 07, 2024 9:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Feb 07, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	43	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	28	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	27	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	740	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 23147875

Date Received : Feb 07, 2024

Date Reported : Feb 15, 2024

Report Number : 2873672-1

Page 2 of 2

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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23147875

Date Received : Feb 07, 2024

Date Reported : Feb 15, 2024

Report Number : 2873672-2

Page 1 of 1

Sample Number	23147875-1
Sampled Date	Feb 07, 2024 9:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Feb 08, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	14.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 244520

Date Received : Mar 06, 2024

Date Reported : Mar 14, 2024

Report Number : 2884645-1

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	244520-1
Sampled Date	Mar 06, 2024 9:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Mar 06, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	32	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	19	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	744	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banongkit

Narumon Banhongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 244520

Date Received : Mar 06, 2024

Date Reported : Mar 14, 2024

Report Number : 2884645-1

Page 2 of 2

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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O :

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 244520

Date Received : Mar 06, 2024

Date Reported : Mar 14, 2024

Report Number : 2884645-2

Page 1 of 1

Sample Number	244520-1
Sampled Date	Mar 06, 2024 9:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Mar 13, 2024
Condition of Sample	Contained in two amber glass bottles, two glass vials 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							
Total Organic Carbon	mg/L	0.01	0.1	12.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2429400

Date Received : Apr 03, 2024

Date Reported : Apr 11, 2024

Report Number : 2937330-1

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	2429400-1
Sampled Date	Apr 03, 2024 9:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Apr 03, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	32	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	16	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	828	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 2429400

Date Received : Apr 03, 2024

Date Reported : Apr 11, 2024

Report Number : 2937330-1

Page 2 of 2

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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Pattapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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- 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.

Technical Management

N. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2429400

Date Received : Apr 03, 2024

Date Reported : Apr 11, 2024

Report Number : 2937330-2

Page 1 of 1

Sample Number	2429400-1
Sampled Date	Apr 03, 2024 9:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Apr 04, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	11.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2442738

Date Received : May 02, 2024

Date Reported : May 10, 2024

Report Number : 2967788-1

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	2442738-1
Sampled Date	May 02, 2024 8:54 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	May 02, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	60	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	14	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	37.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	548	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

N. Banongkit

Narumon Banhongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 2442738

Date Received : May 02, 2024

Date Reported : May 10, 2024

Report Number : 2967788-1

Page 2 of 2

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

Sampling By : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2442738

Date Received : May 02, 2024

Date Reported : May 10, 2024

Report Number : 2967788-2

Page 1 of 1

Sample Number	2442738-1
Sampled Date	May 02, 2024 8:54 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials 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							
Total Organic Carbon	mg/L	0.01	0.1	20.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Surawit Narapong , Thanasoun Namakunna

Remark :

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

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2455754

Date Received : Jun 11, 2024

Date Reported : Jun 19, 2024

Report Number : 2994869-1

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	2455754-1
Sampled Date	Jun 11, 2024 11:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Jun 11, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	26	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	304	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Chumon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2455754

Date Received : Jun 11, 2024

Date Reported : Jun 19, 2024

Report Number : 2994869-1

Page 2 of 2

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

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2455754

Date Received : Jun 11, 2024

Date Reported : Jun 19, 2024

Report Number : 2994869-2

Page 1 of 1

Sample Number	2455754-1
Sampled Date	Jun 11, 2024 11:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Jun 12, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	7.60	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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Approved by

Suwimon C.

Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23146704

Date Received : Jan 10, 2024

Date Reported : Jan 19, 2024

Report Number : 2872796-1 C4

Page 1 of 2

Sample Number	23146704-1						
Sampling Date	Jan 10, 2024 10:15 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Jan 10, 2024						
Condition of Sample	Contained in two amber glass bottles, six glass vials and seven 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	31	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	16	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	952	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23146704

Date Received : Jan 10, 2024

Date Reported : Jan 19, 2024

Report Number : 2872796-1 C4

Page 2 of 2

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

Sampling By : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23146704

Date Received : Jan 10, 2024

Date Reported : Jan 19, 2024

Report Number : 2872796-3 C4

Page 1 of 1

Sample Number	23146704-1						
Sampling Date	Jan 10, 2024 10:15 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Jan 11, 2024						
Condition of Sample	Contained in two amber glass bottles, six glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	12.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Sansoen Khuiyoksui , Thanasoun Namakunna

Remark :

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

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23147860

Date Received : Feb 07, 2024

Date Reported : Feb 16, 2024

Report Number : 2873655-1 C4

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	23147860-1						
Sampling Date	Feb 07, 2024 10:38 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Feb 07, 2024						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	24	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	23	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	776	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23147860

Date Received : Feb 07, 2024

Date Reported : Feb 16, 2024

Report Number : 2873655-1 C4

Page 2 of 2

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

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.

Technical Management

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 23147860

Date Received : Feb 07, 2024

Date Reported : Feb 16, 2024

Report Number : 2873655-3 C4

Page 1 of 1

Sample Number	23147860-1						
Sampling Date	Feb 07, 2024 10:38 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Feb 08, 2024						
Condition of Sample	Contained in six glass vials, two amber glass bottles and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	9.96	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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

Approved by

Siriluk P.

Siriluk Puenggang
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515759206

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 244504

Date Received : Mar 06, 2024

Date Reported : Jun 24, 2024

Report Number : 2884612-1 C4

Page 1 of 2

Sample Number	244504-1
Sampled Date	Mar 06, 2024 10:12 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Mar 06, 2024
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	28	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	17	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	848	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515759206

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 244504

Date Received : Mar 06, 2024

Date Reported : Jun 24, 2024

Report Number : 2884612-1 C4

Page 2 of 2

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

Sampled By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0009

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515759206

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 244504

Date Received : Mar 06, 2024

Date Reported : Jun 25, 2024

Report Number : 2884612-3 C4

Page 1 of 1

Sample Number	244504-1
Sampled Date	Mar 06, 2024 10:12 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Mar 07, 2024
Condition of Sample	Contained in six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon *	mg/L	0.01	0.1	13.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	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).

Sampled By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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

Approved by

Nanthawadee Somboon
Specialist 2

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2429380

Date Received : Apr 03, 2024

Date Reported : Apr 11, 2024

Report Number : 2937271-1 C4

Page 1 of 2

Sample Number	2429380-1						
Sampling Date	Apr 03, 2024 10:14 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Apr 03, 2024						
Condition of Sample	Contained in six glass vials, one amber glass bottle and seven 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	872	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2429380

Date Received : Apr 03, 2024

Date Reported : Apr 11, 2024

Report Number : 2937271-1 C4

Page 2 of 2

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2429380

Date Received : Apr 03, 2024

Date Reported : Apr 11, 2024

Report Number : 2937271-3 C4

Page 1 of 1

Sample Number	2429380-1						
Sampling Date	Apr 03, 2024 10:14 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in six glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	11.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Bangkok

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

Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

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

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2442696

Date Received : May 02, 2024

Date Reported : May 10, 2024

Report Number : 2967712-1 C4

Page 1 of 2

Sample Number	2442696-1						
Sampling Date	May 02, 2024 9:48 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	May 02, 2024						
Condition of Sample	Contained in two amber glass bottles, six glass vials and seven 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	824	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2442696

Date Received : May 02, 2024

Date Reported : May 10, 2024

Report Number : 2967712-1 C4

Page 2 of 2

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

Note : Raw data of COD value (Refer to Lot ID 2442696-1) is 21.8 mg/L

Sampling By : Surawit Narapong , Thanasoun Namakunna

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081289

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2442696

Date Received : May 02, 2024

Date Reported : May 10, 2024

Report Number : 2967712-3 C4

Page 1 of 1

Sample Number	2442696-1						
Sampling Date	May 02, 2024 9:48 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	May 03, 2024						
Condition of Sample	Contained in two amber glass bottles, six glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	12.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	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).

Note : Raw data of COD value (Refer to Lot ID 2442696-1) is 21.8 mg/L

Sampling By : Surawit Narapong , Thanasoun Namakunna

Remark :

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

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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

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6506-102/ EMAIL



Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515759206

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2455651

Date Received : Jun 05, 2024

Date Reported : Jun 25, 2024

Report Number : 2994634-1 C4

Page 1 of 2

Sample Number	2455651-1
Sampled Date	Jun 05, 2024 10:54 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Jun 05, 2024
Condition of Sample	Contained in two amber glass bottles, six glass vials and seven 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	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	39	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	21	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	18	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	752	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
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	Rayong

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

ทะเบียนเลขที่ จ-323-จ-9447

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2455651

Date Received : Jun 05, 2024

Date Reported : Jun 25, 2024

Report Number : 2994634-1 C4

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515759206

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 2 of 2

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

Sampled By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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.

Technical Management

Thanita K.

Thanita Kulsuriwong

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0009

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515759206

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2455651

Date Received : Jun 05, 2024

Date Reported : Jun 25, 2024

Report Number : 2994634-3 C4

Page 1 of 1

Sample Number	2455651-1
Sampled Date	Jun 05, 2024 10:54 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Jun 06, 2024
Condition of Sample	Contained in two amber glass bottles, six glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon *	mg/L	0.01	0.1	16.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	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).

Sampled By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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ภาคผนวก ค-2

ผลการตรวจวัดระดับเสียงทั่วไปและระดับเสียงรบกวน



Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2417809

Date Received : Jun 13, 2024

Date Reported : Jun 18, 2024

Report Number: 3027926-1

Page 1 of 1

Sample Number 2417809-1
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-ฮั่วประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 04 - Jun 05, 2024
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	57.0	80.2	49.0
10:00 AM - 11:00 AM	54.9	74.4	47.7
11:00 AM - 12:00 PM	54.2	75.7	47.9
12:00 PM - 01:00 PM	56.8	81.1	47.1
01:00 PM - 02:00 PM	53.1	73.2	46.4
02:00 PM - 03:00 PM	56.3	79.7	47.0
03:00 PM - 04:00 PM	54.7	73.9	48.1
04:00 PM - 05:00 PM	56.5	81.0	50.5
05:00 PM - 06:00 PM	56.1	86.0	50.0
06:00 PM - 07:00 PM	55.7	72.1	50.3
07:00 PM - 08:00 PM	55.8	77.9	49.6
08:00 PM - 09:00 PM	55.0	77.7	49.0
09:00 PM - 10:00 PM	56.3	80.0	48.8
10:00 PM - 11:00 PM	54.9	79.7	43.5
11:00 PM - 12:00 AM	53.0	78.3	43.6
12:00 AM - 01:00 AM	51.9	75.7	42.8
01:00 AM - 02:00 AM	47.6	68.0	42.5
02:00 AM - 03:00 AM	51.8	78.0	42.8
03:00 AM - 04:00 AM	51.7	76.8	42.3
04:00 AM - 05:00 AM	57.2	78.3	43.6
05:00 AM - 06:00 AM	56.6	77.0	48.5
06:00 AM - 07:00 AM	58.0	84.7	51.1
07:00 AM - 08:00 AM	57.8	75.9	50.9
08:00 AM - 09:00 AM	54.9	77.4	48.6

Leq Average 24 hrs. (dB(A)) 55.4
Lmax (dB(A)) 86.0
L90 (dB(A)) 47.9
Ldn (dB(A)) 61.3

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2417809

Date Received : Jun 13, 2024

Date Reported : Jun 18, 2024

Report Number: 3027927-1

Page 1 of 1

Sample Number 2417809-2
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 05 - Jun 06, 2024
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.0	74.2	46.8
10:00 AM - 11:00 AM	55.4	73.4	47.7
11:00 AM - 12:00 PM	54.3	75.2	47.7
12:00 PM - 01:00 PM	55.2	74.1	48.5
01:00 PM - 02:00 PM	53.8	75.4	46.4
02:00 PM - 03:00 PM	54.5	76.7	47.6
03:00 PM - 04:00 PM	56.0	74.9	48.2
04:00 PM - 05:00 PM	56.4	78.1	50.8
05:00 PM - 06:00 PM	55.8	76.3	50.3
06:00 PM - 07:00 PM	55.7	78.9	50.5
07:00 PM - 08:00 PM	56.1	85.8	50.1
08:00 PM - 09:00 PM	54.1	72.9	48.7
09:00 PM - 10:00 PM	54.9	73.4	47.7
10:00 PM - 11:00 PM	54.6	78.6	45.7
11:00 PM - 12:00 AM	51.6	74.2	44.8
12:00 AM - 01:00 AM	54.0	74.1	48.9
01:00 AM - 02:00 AM	55.0	76.9	48.8
02:00 AM - 03:00 AM	54.2	79.8	46.6
03:00 AM - 04:00 AM	55.0	75.6	46.4
04:00 AM - 05:00 AM	55.7	73.4	50.4
05:00 AM - 06:00 AM	57.3	78.6	49.7
06:00 AM - 07:00 AM	58.2	78.8	51.2
07:00 AM - 08:00 AM	58.4	76.0	51.3
08:00 AM - 09:00 AM	57.9	76.9	50.1

Leq Average 24 hrs. (dB(A)) 55.6
Lmax (dB(A)) 85.8
L90 (dB(A)) 48.5
Ldn (dB(A)) 61.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 2417809

Date Received : Jun 13, 2024

Date Reported : Jun 18, 2024

Report Number: 3027928-1

Page 1 of 1

Sample Number : 2417809-3
Parameter : Noise (Leq 24 hrs.)
Location : ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date : Jun 06 - Jun 07, 2024
Measurement by : Mongkon Phalathip
Sound Level meter : Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.3	79.2	47.3
10:00 AM - 11:00 AM	54.1	76.3	46.1
11:00 AM - 12:00 PM	56.4	76.5	49.1
12:00 PM - 01:00 PM	55.1	73.5	48.4
01:00 PM - 02:00 PM	55.1	76.1	47.9
02:00 PM - 03:00 PM	56.0	81.8	48.5
03:00 PM - 04:00 PM	57.9	78.8	50.3
04:00 PM - 05:00 PM	57.8	78.2	51.7
05:00 PM - 06:00 PM	56.7	77.1	50.9
06:00 PM - 07:00 PM	57.0	78.2	51.9
07:00 PM - 08:00 PM	55.9	76.8	50.8
08:00 PM - 09:00 PM	59.3	81.2	51.3
09:00 PM - 10:00 PM	55.7	80.3	50.2
10:00 PM - 11:00 PM	56.2	84.4	49.4
11:00 PM - 12:00 AM	54.3	77.3	47.5
12:00 AM - 01:00 AM	57.9	87.1	46.5
01:00 AM - 02:00 AM	52.4	75.0	43.9
02:00 AM - 03:00 AM	55.2	76.8	43.7
03:00 AM - 04:00 AM	59.3	77.0	44.5
04:00 AM - 05:00 AM	59.0	78.2	49.5
05:00 AM - 06:00 AM	57.1	76.7	49.3
06:00 AM - 07:00 AM	57.7	80.9	50.6
07:00 AM - 08:00 AM	57.1	74.5	50.1
08:00 AM - 09:00 AM	55.1	74.5	48.1

Leq Average 24 hrs. (dB(A)) : 56.8
Lmax (dB(A)) : 87.1
L90 (dB(A)) : 49.1
Ldn (dB(A)) : 63.4
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027669-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 2417811-1
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 04 - 05, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	57.0	52.2	55.3	-	43.9	11.4
10:00 AM - 11:00 AM	54.9	52.4	51.3	-	45.4	5.9
11:00 AM - 12:00 PM	54.2	54.3	n/a	-	48.3	-
12:00 PM - 01:00 PM	56.8	62.1	n/a	-	53.8	-
01:00 PM - 02:00 PM	53.1	56.3	n/a	-	52.1	-
02:00 PM - 03:00 PM	56.3	53.8	52.7	-	46.4	6.3
03:00 PM - 04:00 PM	54.7	52.5	50.7	-	45.8	4.9
04:00 PM - 05:00 PM	56.5	53.7	53.3	-	48.3	5.0
05:00 PM - 06:00 PM	56.1	54.1	51.8	-	49.4	2.4
06:00 PM - 07:00 PM	55.7	56.7	n/a	-	52.0	-
07:00 PM - 08:00 PM	55.8	56.5	n/a	-	52.4	-
08:00 PM - 09:00 PM	55.0	57.4	n/a	-	52.9	-
09:00 PM - 10:00 PM	56.3	59.9	n/a	-	57.4	-
10:00 PM - 10:05 PM	56.5	59.5	-	n/a	56.6	-
10:05 PM - 10:10 PM	56.2	60.4	-	n/a	59.2	-
10:10 PM - 10:15 PM	51.8	59.3	-	n/a	55.6	-
10:15 PM - 10:20 PM	55.3	59.6	-	n/a	57.1	-
10:20 PM - 10:25 PM	55.2	59.8	-	n/a	57.0	-
10:25 PM - 10:30 PM	49.1	62.9	-	n/a	56.6	-
10:30 PM - 10:35 PM	60.6	59.3	-	57.7	56.7	1.0
10:35 PM - 10:40 PM	48.4	64.2	-	n/a	57.2	-
10:40 PM - 10:45 PM	53.9	59.3	-	n/a	57.1	-
10:45 PM - 10:50 PM	50.9	59.8	-	n/a	57.7	-
10:50 PM - 10:55 PM	48.8	58.8	-	n/a	56.7	-
10:55 PM - 11:00 PM	54.1	58.9	-	n/a	56.7	-
11:00 PM - 11:05 PM	52.7	58.3	-	n/a	56.4	-
11:05 PM - 11:10 PM	51.4	57.5	-	n/a	52.7	-
11:10 PM - 11:15 PM	48.5	57.6	-	n/a	54.9	-
11:15 PM - 11:20 PM	51.7	56.2	-	n/a	52.8	-
11:20 PM - 11:25 PM	56.6	56.4	-	46.1	54.6	-8.5
11:25 PM - 11:30 PM	57.8	57.2	-	51.9	54.0	-2.1
11:30 PM - 11:35 PM	49.2	57.2	-	n/a	54.2	-
11:35 PM - 11:40 PM	52.4	56.7	-	n/a	53.0	-
11:40 PM - 11:45 PM	51.6	55.7	-	n/a	51.3	-
11:45 PM - 11:50 PM	51.5	56.1	-	n/a	51.6	-
11:50 PM - 11:55 PM	51.1	55.0	-	n/a	52.6	-
11:55 PM - 12:00 AM	49.7	57.7	-	n/a	51.0	-
12:00 AM - 12:05 AM	54.2	55.5	-	n/a	51.9	-
12:05 AM - 12:10 AM	52.9	55.6	-	n/a	53.1	-
12:10 AM - 12:15 AM	50.8	56.3	-	n/a	52.0	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027669-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 2417811-1
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 04 - 05, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	49.5	54.8	-	n/a	50.6	-
12:20 AM - 12:25 AM	56.1	54.9	-	52.9	49.7	3.2
12:25 AM - 12:30 AM	45.5	54.0	-	n/a	51.3	-
12:30 AM - 12:35 AM	51.5	56.9	-	n/a	53.8	-
12:35 AM - 12:40 AM	46.2	56.6	-	n/a	54.5	-
12:40 AM - 12:45 AM	47.9	56.8	-	n/a	51.3	-
12:45 AM - 12:50 AM	53.4	56.0	-	n/a	51.1	-
12:50 AM - 12:55 AM	47.4	55.2	-	n/a	51.2	-
12:55 AM - 01:00 AM	53.9	53.9	-	n/a	50.5	-
01:00 AM - 01:05 AM	46.9	53.6	-	n/a	50.5	-
01:05 AM - 01:10 AM	48.6	53.4	-	n/a	50.9	-
01:10 AM - 01:15 AM	47.0	54.1	-	n/a	50.7	-
01:15 AM - 01:20 AM	49.1	53.8	-	n/a	50.8	-
01:20 AM - 01:25 AM	47.1	55.1	-	n/a	49.6	-
01:25 AM - 01:30 AM	45.9	56.1	-	n/a	53.7	-
01:30 AM - 01:35 AM	46.7	56.6	-	n/a	52.4	-
01:35 AM - 01:40 AM	49.5	56.2	-	n/a	52.1	-
01:40 AM - 01:45 AM	49.1	55.0	-	n/a	50.2	-
01:45 AM - 01:50 AM	44.9	56.9	-	n/a	53.4	-
01:50 AM - 01:55 AM	47.1	58.3	-	n/a	55.5	-
01:55 AM - 02:00 AM	46.8	59.7	-	n/a	56.1	-
02:00 AM - 02:05 AM	47.8	60.9	-	n/a	57.8	-
02:05 AM - 02:10 AM	50.2	61.3	-	n/a	59.0	-
02:10 AM - 02:15 AM	53.4	58.7	-	n/a	47.5	-
02:15 AM - 02:20 AM	55.0	54.0	-	51.1	47.4	3.7
02:20 AM - 02:25 AM	48.0	56.8	-	n/a	51.1	-
02:25 AM - 02:30 AM	54.5	55.7	-	n/a	46.2	-
02:30 AM - 02:35 AM	57.4	60.3	-	n/a	56.9	-
02:35 AM - 02:40 AM	47.3	58.7	-	n/a	48.3	-
02:40 AM - 02:45 AM	48.6	61.0	-	n/a	57.0	-
02:45 AM - 02:50 AM	45.4	61.7	-	n/a	59.2	-
02:50 AM - 02:55 AM	45.0	62.0	-	n/a	60.3	-
02:55 AM - 03:00 AM	44.3	61.3	-	n/a	58.5	-
03:00 AM - 03:05 AM	44.0	61.5	-	n/a	58.6	-
03:05 AM - 03:10 AM	46.8	60.9	-	n/a	56.9	-
03:10 AM - 03:15 AM	46.3	58.8	-	n/a	47.1	-
03:15 AM - 03:20 AM	56.1	57.4	-	n/a	48.9	-
03:20 AM - 03:25 AM	46.2	59.7	-	n/a	55.3	-
03:25 AM - 03:30 AM	46.1	61.2	-	n/a	58.2	-
03:30 AM - 03:35 AM	48.5	61.5	-	n/a	60.0	-

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027669-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 2417811-1
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 04 - 05, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	46.0	59.5	-	n/a	50.3	-
03:40 AM - 03:45 AM	59.7	57.9	-	58.0	48.9	9.1
03:45 AM - 03:50 AM	44.0	59.5	-	n/a	56.0	-
03:50 AM - 03:55 AM	47.1	60.0	-	n/a	57.2	-
03:55 AM - 04:00 AM	45.9	59.4	-	n/a	54.3	-
04:00 AM - 04:05 AM	55.2	58.5	-	n/a	50.2	-
04:05 AM - 04:10 AM	60.2	58.7	-	57.9	53.3	4.6
04:10 AM - 04:15 AM	57.3	57.8	-	n/a	47.7	-
04:15 AM - 04:20 AM	46.5	53.9	-	n/a	45.0	-
04:20 AM - 04:25 AM	48.9	52.7	-	n/a	45.6	-
04:25 AM - 04:30 AM	49.9	53.2	-	n/a	43.5	-
04:30 AM - 04:35 AM	59.9	53.3	-	61.8	46.7	15.1
04:35 AM - 04:40 AM	54.5	54.4	-	41.1	46.9	-5.8
04:40 AM - 04:45 AM	60.9	54.7	-	62.7	45.5	17.2
04:45 AM - 04:50 AM	56.2	53.0	-	56.4	45.7	10.7
04:50 AM - 04:55 AM	57.2	48.5	-	59.6	43.7	15.9
04:55 AM - 05:00 AM	58.8	53.5	-	60.3	44.0	16.3
05:00 AM - 05:05 AM	57.8	52.2	-	59.4	43.4	16.0
05:05 AM - 05:10 AM	58.3	54.0	-	59.3	44.1	15.2
05:10 AM - 05:15 AM	56.7	54.1	-	56.2	43.8	12.4
05:15 AM - 05:20 AM	57.6	48.1	-	60.1	41.9	18.2
05:20 AM - 05:25 AM	56.1	48.5	-	58.3	42.6	15.7
05:25 AM - 05:30 AM	54.3	50.1	-	55.2	42.8	12.4
05:30 AM - 05:35 AM	56.5	53.7	-	56.3	42.8	13.5
05:35 AM - 05:40 AM	55.8	48.3	-	57.9	42.8	15.1
05:40 AM - 05:45 AM	55.4	51.5	-	56.1	44.5	11.6
05:45 AM - 05:50 AM	54.4	48.8	-	56.0	43.0	13.0
05:50 AM - 05:55 AM	56.2	49.7	-	58.1	44.9	13.2
05:55 AM - 06:00 AM	57.9	51.9	-	59.6	44.8	14.8
06:00 AM - 07:00 AM	58.0	53.4	56.2	-	46.9	9.3
07:00 AM - 08:00 AM	57.8	54.6	55.0	-	48.5	6.5
08:00 AM - 09:00 AM	54.9	52.9	50.6	-	44.2	6.4
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 04-05 มิถุนายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.23106837-1 วันที่ตรวจวัด 18-19 ตุลาคม 2566)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

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Life Sciences

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027670-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 2417811-2
Parameter เสียงรบกวน
Location ขุมขนดากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 05 - 06, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	54.0	52.2	49.3	-	43.9	5.4
10:00 AM - 11:00 AM	55.4	52.4	52.4	-	45.4	7.0
11:00 AM - 12:00 PM	54.3	54.3	n/a	-	48.3	-
12:00 PM - 01:00 PM	55.2	62.1	n/a	-	53.8	-
01:00 PM - 02:00 PM	53.8	56.3	n/a	-	52.1	-
02:00 PM - 03:00 PM	54.5	53.8	46.2	-	46.4	-0.2
03:00 PM - 04:00 PM	56.0	52.5	53.4	-	45.8	7.6
04:00 PM - 05:00 PM	56.4	53.7	53.1	-	48.3	4.8
05:00 PM - 06:00 PM	55.8	54.1	50.9	-	49.4	1.5
06:00 PM - 07:00 PM	55.7	56.7	n/a	-	52.0	-
07:00 PM - 08:00 PM	56.1	56.5	n/a	-	52.4	-
08:00 PM - 09:00 PM	54.1	57.4	n/a	-	52.9	-
09:00 PM - 10:00 PM	54.9	59.9	n/a	-	57.4	-
10:00 PM - 10:05 PM	50.8	59.5	-	n/a	56.6	-
10:05 PM - 10:10 PM	51.4	60.4	-	n/a	59.2	-
10:10 PM - 10:15 PM	51.7	59.3	-	n/a	55.6	-
10:15 PM - 10:20 PM	49.8	59.6	-	n/a	57.1	-
10:20 PM - 10:25 PM	59.6	59.8	-	n/a	57.0	-
10:25 PM - 10:30 PM	57.7	62.9	-	n/a	56.6	-
10:30 PM - 10:35 PM	51.4	59.3	-	n/a	56.7	-
10:35 PM - 10:40 PM	55.6	64.2	-	n/a	57.2	-
10:40 PM - 10:45 PM	56.1	59.3	-	n/a	57.1	-
10:45 PM - 10:50 PM	52.2	59.8	-	n/a	57.7	-
10:50 PM - 10:55 PM	51.1	58.8	-	n/a	56.7	-
10:55 PM - 11:00 PM	53.6	58.9	-	n/a	56.7	-
11:00 PM - 11:05 PM	51.3	58.3	-	n/a	56.4	-
11:05 PM - 11:10 PM	49.2	57.5	-	n/a	52.7	-
11:10 PM - 11:15 PM	53.2	57.6	-	n/a	54.9	-
11:15 PM - 11:20 PM	52.6	56.2	-	n/a	52.8	-
11:20 PM - 11:25 PM	50.3	56.4	-	n/a	54.6	-
11:25 PM - 11:30 PM	53.1	57.2	-	n/a	54.0	-
11:30 PM - 11:35 PM	51.3	57.2	-	n/a	54.2	-
11:35 PM - 11:40 PM	48.7	56.7	-	n/a	53.0	-
11:40 PM - 11:45 PM	46.7	55.7	-	n/a	51.3	-
11:45 PM - 11:50 PM	52.0	56.1	-	n/a	51.6	-
11:50 PM - 11:55 PM	49.3	55.0	-	n/a	52.6	-
11:55 PM - 12:00 AM	54.9	57.7	-	n/a	51.0	-
12:00 AM - 12:05 AM	53.3	55.5	-	n/a	51.9	-
12:05 AM - 12:10 AM	55.5	55.6	-	n/a	53.1	-
12:10 AM - 12:15 AM	52.4	56.3	-	n/a	52.0	-

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027670-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 2417811-2
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 05 - 06, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	54.1	54.8	-	n/a	50.6	-
12:20 AM - 12:25 AM	53.5	54.9	-	n/a	49.7	-
12:25 AM - 12:30 AM	51.2	54.0	-	n/a	51.3	-
12:30 AM - 12:35 AM	54.0	56.9	-	n/a	53.8	-
12:35 AM - 12:40 AM	52.2	56.6	-	n/a	54.5	-
12:40 AM - 12:45 AM	53.1	56.8	-	n/a	51.3	-
12:45 AM - 12:50 AM	51.4	56.0	-	n/a	51.1	-
12:50 AM - 12:55 AM	57.2	55.2	-	55.9	51.2	4.7
12:55 AM - 01:00 AM	56.1	53.9	-	55.1	50.5	4.6
01:00 AM - 01:05 AM	54.0	53.6	-	46.4	50.5	-4.1
01:05 AM - 01:10 AM	51.5	53.4	-	n/a	50.9	-
01:10 AM - 01:15 AM	51.1	54.1	-	n/a	50.7	-
01:15 AM - 01:20 AM	54.0	53.8	-	43.5	50.8	-7.3
01:20 AM - 01:25 AM	61.6	55.1	-	63.5	49.6	13.9
01:25 AM - 01:30 AM	56.9	56.1	-	52.2	53.7	-1.5
01:30 AM - 01:35 AM	50.3	56.6	-	n/a	52.4	-
01:35 AM - 01:40 AM	53.0	56.2	-	n/a	52.1	-
01:40 AM - 01:45 AM	54.8	55.0	-	n/a	50.2	-
01:45 AM - 01:50 AM	51.3	56.9	-	n/a	53.4	-
01:50 AM - 01:55 AM	51.1	58.3	-	n/a	55.5	-
01:55 AM - 02:00 AM	53.9	59.7	-	n/a	56.1	-
02:00 AM - 02:05 AM	50.9	60.9	-	n/a	57.8	-
02:05 AM - 02:10 AM	54.1	61.3	-	n/a	59.0	-
02:10 AM - 02:15 AM	53.2	58.7	-	n/a	47.5	-
02:15 AM - 02:20 AM	60.2	54.0	-	62.0	47.4	14.6
02:20 AM - 02:25 AM	57.7	56.8	-	53.4	51.1	2.3
02:25 AM - 02:30 AM	53.0	55.7	-	n/a	46.2	-
02:30 AM - 02:35 AM	49.9	60.3	-	n/a	56.9	-
02:35 AM - 02:40 AM	48.2	58.7	-	n/a	48.3	-
02:40 AM - 02:45 AM	48.1	61.0	-	n/a	57.0	-
02:45 AM - 02:50 AM	50.1	61.7	-	n/a	59.2	-
02:50 AM - 02:55 AM	53.7	62.0	-	n/a	60.3	-
02:55 AM - 03:00 AM	51.2	61.3	-	n/a	58.5	-
03:00 AM - 03:05 AM	48.8	61.5	-	n/a	58.6	-
03:05 AM - 03:10 AM	47.4	60.9	-	n/a	56.9	-
03:10 AM - 03:15 AM	53.8	58.8	-	n/a	47.1	-
03:15 AM - 03:20 AM	59.2	57.4	-	57.5	48.9	8.6
03:20 AM - 03:25 AM	48.3	59.7	-	n/a	55.3	-
03:25 AM - 03:30 AM	57.3	61.2	-	n/a	58.2	-
03:30 AM - 03:35 AM	53.2	61.5	-	n/a	60.0	-

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027670-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 2417811-2
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 05 - 06, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	47.7	59.5	-	n/a	50.3	-
03:40 AM - 03:45 AM	57.7	57.9	-	n/a	48.9	-
03:45 AM - 03:50 AM	56.6	59.5	-	n/a	56.0	-
03:50 AM - 03:55 AM	54.7	60.0	-	n/a	57.2	-
03:55 AM - 04:00 AM	55.7	59.4	-	n/a	54.3	-
04:00 AM - 04:05 AM	57.4	58.5	-	n/a	50.2	-
04:05 AM - 04:10 AM	53.8	58.7	-	n/a	53.3	-
04:10 AM - 04:15 AM	56.5	57.8	-	n/a	47.7	-
04:15 AM - 04:20 AM	54.1	53.9	-	43.6	45.0	-1.4
04:20 AM - 04:25 AM	55.2	52.7	-	54.6	45.6	9.0
04:25 AM - 04:30 AM	54.8	53.2	-	52.7	43.5	9.2
04:30 AM - 04:35 AM	54.3	53.3	-	50.4	46.7	3.7
04:35 AM - 04:40 AM	56.3	54.4	-	54.8	46.9	7.9
04:40 AM - 04:45 AM	53.9	54.7	-	n/a	45.5	-
04:45 AM - 04:50 AM	54.4	53.0	-	51.8	45.7	6.1
04:50 AM - 04:55 AM	55.8	48.5	-	57.9	43.7	14.2
04:55 AM - 05:00 AM	58.6	53.5	-	60.0	44.0	16.0
05:00 AM - 05:05 AM	55.8	52.2	-	56.3	43.4	12.9
05:05 AM - 05:10 AM	54.0	54.0	-	n/a	44.1	-
05:10 AM - 05:15 AM	53.6	54.1	-	n/a	43.8	-
05:15 AM - 05:20 AM	56.8	48.1	-	59.2	41.9	17.3
05:20 AM - 05:25 AM	53.3	48.5	-	54.6	42.6	12.0
05:25 AM - 05:30 AM	58.8	50.1	-	61.2	42.8	18.4
05:30 AM - 05:35 AM	59.6	53.7	-	61.3	42.8	18.5
05:35 AM - 05:40 AM	57.0	48.3	-	59.4	42.8	16.6
05:40 AM - 05:45 AM	57.5	51.5	-	59.2	44.5	14.7
05:45 AM - 05:50 AM	56.7	48.8	-	58.9	43.0	15.9
05:50 AM - 05:55 AM	59.5	49.7	-	62.0	44.9	17.1
05:55 AM - 06:00 AM	58.9	51.9	-	60.9	44.8	16.1
06:00 AM - 07:00 AM	58.2	53.4	56.5	-	46.9	9.6
07:00 AM - 08:00 AM	58.4	54.6	56.1	-	48.5	7.6
08:00 AM - 09:00 AM	57.9	52.9	56.2	-	44.2	12.0
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 05-06 มิถุนายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.23106837-1 วันที่ตรวจวัด 18-19 ตุลาคม 2566)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by

Wilawan Borirak
Manager

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027671-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 2417811-3
Parameter เสียงรบกวน
Location ขุมขนดากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 06 - 07, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	56.3	52.2	54.2	-	43.9	10.3
10:00 AM - 11:00 AM	54.1	52.4	49.2	-	45.4	3.8
11:00 AM - 12:00 PM	56.4	54.3	52.2	-	48.3	3.9
12:00 PM - 01:00 PM	55.1	62.1	n/a	-	53.8	-
01:00 PM - 02:00 PM	55.1	56.3	n/a	-	52.1	-
02:00 PM - 03:00 PM	56.0	53.8	52.0	-	46.4	5.6
03:00 PM - 04:00 PM	57.9	52.5	56.4	-	45.8	10.6
04:00 PM - 05:00 PM	57.8	53.7	55.7	-	48.3	7.4
05:00 PM - 06:00 PM	56.7	54.1	53.2	-	49.4	3.8
06:00 PM - 07:00 PM	57.0	56.7	45.2	-	52.0	-6.8
07:00 PM - 08:00 PM	55.9	56.5	n/a	-	52.4	-
08:00 PM - 09:00 PM	59.3	57.4	54.8	-	52.9	1.9
09:00 PM - 10:00 PM	55.7	59.9	n/a	-	57.4	-
10:00 PM - 10:05 PM	54.2	59.5	-	n/a	56.6	-
10:05 PM - 10:10 PM	54.1	60.4	-	n/a	59.2	-
10:10 PM - 10:15 PM	54.6	59.3	-	n/a	55.6	-
10:15 PM - 10:20 PM	55.4	59.6	-	n/a	57.1	-
10:20 PM - 10:25 PM	56.0	59.8	-	n/a	57.0	-
10:25 PM - 10:30 PM	55.6	62.9	-	n/a	56.6	-
10:30 PM - 10:35 PM	62.0	59.3	-	61.7	56.7	5.0
10:35 PM - 10:40 PM	54.0	64.2	-	n/a	57.2	-
10:40 PM - 10:45 PM	57.2	59.3	-	n/a	57.1	-
10:45 PM - 10:50 PM	53.4	59.8	-	n/a	57.7	-
10:50 PM - 10:55 PM	53.9	58.8	-	n/a	56.7	-
10:55 PM - 11:00 PM	53.8	58.9	-	n/a	56.7	-
11:00 PM - 11:05 PM	52.3	58.3	-	n/a	56.4	-
11:05 PM - 11:10 PM	53.6	57.5	-	n/a	52.7	-
11:10 PM - 11:15 PM	51.4	57.6	-	n/a	54.9	-
11:15 PM - 11:20 PM	52.5	56.2	-	n/a	52.8	-
11:20 PM - 11:25 PM	52.7	56.4	-	n/a	54.6	-
11:25 PM - 11:30 PM	53.0	57.2	-	n/a	54.0	-
11:30 PM - 11:35 PM	55.1	57.2	-	n/a	54.2	-
11:35 PM - 11:40 PM	56.9	56.7	-	46.4	53.0	-6.6
11:40 PM - 11:45 PM	52.2	55.7	-	n/a	51.3	-
11:45 PM - 11:50 PM	53.1	56.1	-	n/a	51.6	-
11:50 PM - 11:55 PM	57.8	55.0	-	57.6	52.6	5.0
11:55 PM - 12:00 AM	54.9	57.7	-	n/a	51.0	-
12:00 AM - 12:05 AM	64.8	55.5	-	67.3	51.9	15.4
12:05 AM - 12:10 AM	54.8	55.6	-	n/a	53.1	-
12:10 AM - 12:15 AM	51.8	56.3	-	n/a	52.0	-

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027671-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 2417811-3
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 06 - 07, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	54.5	54.8	-	n/a	50.6	-
12:20 AM - 12:25 AM	58.8	54.9	-	59.5	49.7	9.8
12:25 AM - 12:30 AM	50.6	54.0	-	n/a	51.3	-
12:30 AM - 12:35 AM	50.1	56.9	-	n/a	53.8	-
12:35 AM - 12:40 AM	47.4	56.6	-	n/a	54.5	-
12:40 AM - 12:45 AM	63.0	56.8	-	64.8	51.3	13.5
12:45 AM - 12:50 AM	52.8	56.0	-	n/a	51.1	-
12:50 AM - 12:55 AM	54.0	55.2	-	n/a	51.2	-
12:55 AM - 01:00 AM	52.1	53.9	-	n/a	50.5	-
01:00 AM - 01:05 AM	53.6	53.6	-	n/a	50.5	-
01:05 AM - 01:10 AM	54.8	53.4	-	52.2	50.9	1.3
01:10 AM - 01:15 AM	48.5	54.1	-	n/a	50.7	-
01:15 AM - 01:20 AM	47.1	53.8	-	n/a	50.8	-
01:20 AM - 01:25 AM	48.5	55.1	-	n/a	49.6	-
01:25 AM - 01:30 AM	55.9	56.1	-	n/a	53.7	-
01:30 AM - 01:35 AM	47.1	56.6	-	n/a	52.4	-
01:35 AM - 01:40 AM	51.2	56.2	-	n/a	52.1	-
01:40 AM - 01:45 AM	50.9	55.0	-	n/a	50.2	-
01:45 AM - 01:50 AM	56.2	56.9	-	n/a	53.4	-
01:50 AM - 01:55 AM	50.5	58.3	-	n/a	55.5	-
01:55 AM - 02:00 AM	50.6	59.7	-	n/a	56.1	-
02:00 AM - 02:05 AM	48.4	60.9	-	n/a	57.8	-
02:05 AM - 02:10 AM	55.4	61.3	-	n/a	59.0	-
02:10 AM - 02:15 AM	53.3	58.7	-	n/a	47.5	-
02:15 AM - 02:20 AM	54.1	54.0	-	40.7	47.4	-6.7
02:20 AM - 02:25 AM	46.3	56.8	-	n/a	51.1	-
02:25 AM - 02:30 AM	47.7	55.7	-	n/a	46.2	-
02:30 AM - 02:35 AM	50.4	60.3	-	n/a	56.9	-
02:35 AM - 02:40 AM	56.8	58.7	-	n/a	48.3	-
02:40 AM - 02:45 AM	59.1	61.0	-	n/a	57.0	-
02:45 AM - 02:50 AM	60.3	61.7	-	n/a	59.2	-
02:50 AM - 02:55 AM	56.0	62.0	-	n/a	60.3	-
02:55 AM - 03:00 AM	51.0	61.3	-	n/a	58.5	-
03:00 AM - 03:05 AM	51.8	61.5	-	n/a	58.6	-
03:05 AM - 03:10 AM	61.2	60.9	-	52.4	56.9	-4.5
03:10 AM - 03:15 AM	60.9	58.8	-	59.7	47.1	12.6
03:15 AM - 03:20 AM	61.3	57.4	-	62.0	48.9	13.1
03:20 AM - 03:25 AM	53.3	59.7	-	n/a	55.3	-
03:25 AM - 03:30 AM	59.6	61.2	-	n/a	58.2	-
03:30 AM - 03:35 AM	61.9	61.5	-	54.3	60.0	-5.7

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 2417811
Date Received :Jun 13, 2024
Date Reported :Jun 21, 2024
Report Number : 3027671-1

P/O : 4515498514

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 2417811-3
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Jun 06 - 07, 2024
Measurement by Mongkon Phalathip
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	62.7	59.5	-	62.9	50.3	12.6
03:40 AM - 03:45 AM	50.9	57.9	-	n/a	48.9	-
03:45 AM - 03:50 AM	57.0	59.5	-	n/a	56.0	-
03:50 AM - 03:55 AM	57.1	60.0	-	n/a	57.2	-
03:55 AM - 04:00 AM	55.9	59.4	-	n/a	54.3	-
04:00 AM - 04:05 AM	57.1	58.5	-	n/a	50.2	-
04:05 AM - 04:10 AM	60.4	58.7	-	58.5	53.3	5.2
04:10 AM - 04:15 AM	58.2	57.8	-	50.6	47.7	2.9
04:15 AM - 04:20 AM	61.3	53.9	-	63.4	45.0	18.4
04:20 AM - 04:25 AM	59.6	52.7	-	61.6	45.6	16.0
04:25 AM - 04:30 AM	58.7	53.2	-	60.3	43.5	16.8
04:30 AM - 04:35 AM	58.5	53.3	-	59.9	46.7	13.2
04:35 AM - 04:40 AM	57.7	54.4	-	58.0	46.9	11.1
04:40 AM - 04:45 AM	57.0	54.7	-	56.1	45.5	10.6
04:45 AM - 04:50 AM	56.4	53.0	-	56.7	45.7	11.0
04:50 AM - 04:55 AM	60.1	48.5	-	62.8	43.7	19.1
04:55 AM - 05:00 AM	60.0	53.5	-	61.9	44.0	17.9
05:00 AM - 05:05 AM	58.8	52.2	-	60.7	43.4	17.3
05:05 AM - 05:10 AM	57.5	54.0	-	57.9	44.1	13.8
05:10 AM - 05:15 AM	59.9	54.1	-	61.6	43.8	17.8
05:15 AM - 05:20 AM	57.7	48.1	-	60.2	41.9	18.3
05:20 AM - 05:25 AM	53.8	48.5	-	55.3	42.6	12.7
05:25 AM - 05:30 AM	54.4	50.1	-	55.4	42.8	12.6
05:30 AM - 05:35 AM	52.0	53.7	-	n/a	42.8	-
05:35 AM - 05:40 AM	54.9	48.3	-	56.8	42.8	14.0
05:40 AM - 05:45 AM	55.5	51.5	-	56.3	44.5	11.8
05:45 AM - 05:50 AM	56.1	48.8	-	58.2	43.0	15.2
05:50 AM - 05:55 AM	59.8	49.7	-	62.4	44.9	17.5
05:55 AM - 06:00 AM	57.6	51.9	-	59.2	44.8	14.4
06:00 AM - 07:00 AM	57.7	53.4	55.7	-	46.9	8.8
07:00 AM - 08:00 AM	57.1	54.6	53.5	-	48.5	5.0
08:00 AM - 09:00 AM	55.1	52.9	51.1	-	44.2	6.9
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 06-07 มิถุนายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.23106837-1 วันที่ตรวจวัด 18-19 ตุลาคม 2566)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by

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Manager

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 23106837
Date Received :Oct 19, 2023
Date Reported :Oct 20, 2023
Report No. : 2773535-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 23106837-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Oct 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	52.2	72.5	43.9
10:00 AM - 11:00 AM	52.4	71.1	45.4
11:00 AM - 12:00 PM	54.3	77.7	48.3
12:00 PM - 01:00 PM	62.1	77.4	53.8
01:00 PM - 02:00 PM	56.3	79.5	52.1
02:00 PM - 03:00 PM	53.8	78.3	46.4
03:00 PM - 04:00 PM	52.5	76.2	45.8
04:00 PM - 05:00 PM	53.7	75.3	48.3
05:00 PM - 06:00 PM	54.1	71.2	49.4
06:00 PM - 07:00 PM	56.7	77.8	52.0
07:00 PM - 08:00 PM	56.5	82.0	52.4
08:00 PM - 09:00 PM	57.4	79.7	52.9
09:00 PM - 10:00 PM	59.9	79.7	57.4
10:00 PM - 10:05 PM	59.5	62.9	56.6
10:05 PM - 10:10 PM	60.4	65.8	59.2
10:10 PM - 10:15 PM	59.3	66.0	55.6
10:15 PM - 10:20 PM	59.6	62.6	57.1
10:20 PM - 10:25 PM	59.8	68.5	57.0
10:25 PM - 10:30 PM	62.9	76.1	56.6
10:30 PM - 10:35 PM	59.3	73.8	56.7
10:35 PM - 10:40 PM	64.2	87.5	57.2
10:40 PM - 10:45 PM	59.3	65.1	57.1
10:45 PM - 10:50 PM	59.8	73.3	57.7
10:50 PM - 10:55 PM	58.8	63.2	56.7
10:55 PM - 11:00 PM	58.9	62.6	56.7
11:00 PM - 11:05 PM	58.3	61.4	56.4
11:05 PM - 11:10 PM	57.5	72.2	52.7
11:10 PM - 11:15 PM	57.6	62.6	54.9
11:15 PM - 11:20 PM	56.2	63.5	52.8
11:20 PM - 11:25 PM	56.4	61.0	54.6
11:25 PM - 11:30 PM	57.2	63.0	54.0
11:30 PM - 11:35 PM	57.2	68.9	54.2
11:35 PM - 11:40 PM	56.7	66.6	53.0
11:40 PM - 11:45 PM	55.7	61.1	51.3
11:45 PM - 11:50 PM	56.1	66.0	51.6
11:50 PM - 11:55 PM	55.0	59.4	52.6
11:55 PM - 12:00 AM	57.7	77.2	51.0
12:00 AM - 12:05 AM	55.5	65.5	51.9
12:05 AM - 12:10 AM	55.6	62.3	53.1
12:10 AM - 12:15 AM	56.3	73.9	52.0

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Approved by

Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 23106837
Date Received :Oct 19, 2023
Date Reported :Oct 20, 2023
Report No. : 2773535-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 23106837-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Oct 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	54.8	68.5	50.6
12:20 AM - 12:25 AM	54.9	67.2	49.7
12:25 AM - 12:30 AM	54.0	61.2	51.3
12:30 AM - 12:35 AM	56.9	61.9	53.8
12:35 AM - 12:40 AM	56.6	70.6	54.5
12:40 AM - 12:45 AM	56.8	75.3	51.3
12:45 AM - 12:50 AM	56.0	76.3	51.1
12:50 AM - 12:55 AM	55.2	65.1	51.2
12:55 AM - 01:00 AM	53.9	62.5	50.5
01:00 AM - 01:05 AM	53.6	58.7	50.5
01:05 AM - 01:10 AM	53.4	63.0	50.9
01:10 AM - 01:15 AM	54.1	72.0	50.7
01:15 AM - 01:20 AM	53.8	60.0	50.8
01:20 AM - 01:25 AM	55.1	69.1	49.6
01:25 AM - 01:30 AM	56.1	70.5	53.7
01:30 AM - 01:35 AM	56.6	61.5	52.4
01:35 AM - 01:40 AM	56.2	64.8	52.1
01:40 AM - 01:45 AM	55.0	61.7	50.2
01:45 AM - 01:50 AM	56.9	69.5	53.4
01:50 AM - 01:55 AM	58.3	63.1	55.5
01:55 AM - 02:00 AM	59.7	64.2	56.1
02:00 AM - 02:05 AM	60.9	64.3	57.8
02:05 AM - 02:10 AM	61.3	67.9	59.0
02:10 AM - 02:15 AM	58.7	65.0	47.5
02:15 AM - 02:20 AM	54.0	63.2	47.4
02:20 AM - 02:25 AM	56.8	62.7	51.1
02:25 AM - 02:30 AM	55.7	67.5	46.2
02:30 AM - 02:35 AM	60.3	64.0	56.9
02:35 AM - 02:40 AM	58.7	64.4	48.3
02:40 AM - 02:45 AM	61.0	64.9	57.0
02:45 AM - 02:50 AM	61.7	65.0	59.2
02:50 AM - 02:55 AM	62.0	68.7	60.3
02:55 AM - 03:00 AM	61.3	69.0	58.5
03:00 AM - 03:05 AM	61.5	64.7	58.6
03:05 AM - 03:10 AM	60.9	64.5	56.9
03:10 AM - 03:15 AM	58.8	64.7	47.1
03:15 AM - 03:20 AM	57.4	63.7	48.9
03:20 AM - 03:25 AM	59.7	64.3	55.3
03:25 AM - 03:30 AM	61.2	73.3	58.2
03:30 AM - 03:35 AM	61.5	64.2	60.0

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Wilawan Borirak
Manager



Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150

Lot ID: 23106837
Date Received :Oct 19, 2023
Date Reported :Oct 20, 2023
Report No. : 2773535-1

P/O :
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 23106837-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Oct 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	59.5	65.1	50.3
03:40 AM - 03:45 AM	57.9	64.2	48.9
03:45 AM - 03:50 AM	59.5	64.5	56.0
03:50 AM - 03:55 AM	60.0	63.6	57.2
03:55 AM - 04:00 AM	59.4	63.8	54.3
04:00 AM - 04:05 AM	58.5	63.6	50.2
04:05 AM - 04:10 AM	58.7	63.8	53.3
04:10 AM - 04:15 AM	57.8	65.5	47.7
04:15 AM - 04:20 AM	53.9	65.8	45.0
04:20 AM - 04:25 AM	52.7	61.3	45.6
04:25 AM - 04:30 AM	53.2	62.3	43.5
04:30 AM - 04:35 AM	53.3	61.2	46.7
04:35 AM - 04:40 AM	54.4	78.6	46.9
04:40 AM - 04:45 AM	54.7	69.0	45.5
04:45 AM - 04:50 AM	53.0	66.4	45.7
04:50 AM - 04:55 AM	48.5	59.1	43.7
04:55 AM - 05:00 AM	53.5	71.2	44.0
05:00 AM - 05:05 AM	52.2	71.9	43.4
05:05 AM - 05:10 AM	54.0	72.7	44.1
05:10 AM - 05:15 AM	54.1	70.4	43.8
05:15 AM - 05:20 AM	48.1	59.5	41.9
05:20 AM - 05:25 AM	48.5	60.9	42.6
05:25 AM - 05:30 AM	50.1	67.2	42.8
05:30 AM - 05:35 AM	53.7	67.5	42.8
05:35 AM - 05:40 AM	48.3	66.8	42.8
05:40 AM - 05:45 AM	51.5	68.3	44.5
05:45 AM - 05:50 AM	48.8	61.2	43.0
05:50 AM - 05:55 AM	49.7	60.7	44.9
05:55 AM - 06:00 AM	51.9	64.8	44.8
06:00 AM - 07:00 AM	53.4	70.0	46.9
07:00 AM - 08:00 AM	54.6	74.0	48.5
08:00 AM - 09:00 AM	52.9	74.6	44.2

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

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Wilawan Borirak
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