

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



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 : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2278777

Date Received : Jul 06, 2022

Date Reported : Jul 15, 2022

Report Number : 2355956-1

Page 1 of 1

Sample Number	2278777-1
Sampled Date	Jul 06, 2022 9:30 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Jul 06, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	26	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	360	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 : Pathompong Kornasawat , Thanasoun Namakunna

Remark :

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

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

Client : Dow Chemical Thailand Ltd.
8, I-4 Road, Map Ta Phut Industrial Estate, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4512615548
Project Name : Water Testing
Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2278777

Date Received : Jul 06, 2022
Date Reported : Jul 15, 2022
Report Number : 2355956-2

Page 1 of 1

Sample Number 2278777-1
Sampled Date Jul 06, 2022 9:30 AM
Sample Description Wastewater
Location H-304
Date Analysis Commenced Jul 11, 2022
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	5.11	No Standard	Based on APHA (2017), 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 : Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Siriluk P.

Siriluk Puenggang
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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 : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2284554

Date Received : Aug 02, 2022

Date Reported : Aug 09, 2022

Report Number : 2369751-1

Page 1 of 1

Sample Number	2284554-1						
Sampled Date	Aug 02, 2022 2:30 PM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Aug 02, 2022						
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	10	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.3	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	62	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 : Pathompong Kornasawat , Thanasoun Namakunna

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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

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2284554

Date Received : Aug 02, 2022

Date Reported : Aug 09, 2022

Report Number : 2369751-2

Page 1 of 1

Sample Number	2284554-1
Sampled Date	Aug 02, 2022 2:30 PM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Aug 05, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	3.48	No Standard	Based on APHA (2017), 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 : Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0042

Lot ID: 2296734

Date Received : Sep 07, 2022

Date Reported : Sep 15, 2022

Report Number : 2397667-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 1

Sample Number	2296734-1
Sampled Date	Sep 07, 2022 11:10 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Sep 07, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	<5	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	27.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	62	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 , Thanasoun Namakunna

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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

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 2296734

Date Received : Sep 07, 2022

Date Reported : Sep 15, 2022

Report Number : 2397667-2

Page 1 of 1

Sample Number	2296734-1
Sampled Date	Sep 07, 2022 11:10 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Sep 14, 2022
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	2.32	No Standard	Based on APHA (2017), 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 , Thanasoun Namakunna

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Approved by

Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

TESTING

No.0042

Lot ID: 22110986

Date Received : Oct 04, 2022

Date Reported : Oct 11, 2022

Report Number : 2427407-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 1

Sample Number	22110986-1
Sampled Date	Oct 04, 2022 9:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Oct 04, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	16	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	116	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 , Thanasoun Namakunna

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

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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 : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 22110986

Date Received : Oct 04, 2022

Date Reported : Oct 12, 2022

Report Number : 2427407-2

Page 1 of 1

Sample Number	22110986-1
Sampled Date	Oct 04, 2022 9:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Oct 08, 2022
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	4.53	No Standard	Based on APHA (2017), 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 , Thanasoun Namakunna

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Narin Saiseng
Supervisor



Analysis / Test Report

TESTING

No.0042

Lot ID: 22122225

Date Received : Nov 01, 2022

Date Reported : Nov 09, 2022

Report Number : 2453571-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 1

Sample Number	22122225-1
Sampled Date	Nov 01, 2022 9:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Nov 01, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	25	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	18	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	16	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	27.4	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	214	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 , Thanasoun Namakunna

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

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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 : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 22122225

Date Received : Nov 01, 2022

Date Reported : Nov 09, 2022

Report Number : 2453571-2

Page 1 of 1

Sample Number	22122225-1
Sampled Date	Nov 01, 2022 9:15 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Nov 03, 2022
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Organic Carbon	mg/L	0.01	0.1	6.43	No Standard	Based on APHA (2017), 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 , Thanasoun Namakunna

Remark :

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Siriluk Puenggang
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Analysis / Test Report

TESTING

No.0042

Lot ID: 22136131

Date Received : Dec 13, 2022

Date Reported : Dec 21, 2022

Report Number : 2486156-1

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

Page 1 of 2

Sample Number	22136131-1
Sampled Date	Dec 13, 2022 10:00 AM
Sample Description	Wastewater
Location	H-304
Date Analysis Commenced	Dec 13, 2022
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	<2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	17	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	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	12	≤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	-	-	25.5	≤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	408	≤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

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).

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

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512615548

Project Name : Water Testing

Project Location: Map Ta Phut_PU (PPTL)

TESTING

No.0042

Lot ID: 22136131

Date Received : Dec 13, 2022

Date Reported : Dec 21, 2022

Report Number : 2486156-1

Page 2 of 2

Sampling By : Pathompong Kornasawat ทะเบียนเลขที่ ว-323-จ-9468 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

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

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 : 4512615548
Project Name : Water Testing
Project Location: Map Ta Phut_PU (PPTL)

Lot ID: 22136131

Date Received : Dec 13, 2022

Date Reported : Dec 21, 2022

Report Number : 2486156-2

Page 1 of 1

Sample Number	22136131-1						
Sampled Date	Dec 13, 2022 10:00 AM						
Sample Description	Wastewater						
Location	H-304						
Date Analysis Commenced	Dec 20, 2022						
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	7.84	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 : Pathompong Kornawat ทะเบียนเลขที่ ว-323-จ-9468 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

Remark :

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Approved by

Nanthawadee Somboon
Specialist 1



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: 2270897

Date Received : Jul 06, 2022

Date Reported : Dec 22, 2022

Report Number : 2338398-1 C4

Page 1 of 1

Sample Number	2270897-1
Sampling Date	Jul 06, 2022 11:00 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Jul 06, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	22	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	780	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 : Pathompong Kornawat , Thanasoun Namakunna

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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: 2270897

Date Received : Jul 06, 2022

Date Reported : Dec 22, 2022

Report Number : 2338398-3 C4

Page 1 of 1

Sample Number	2270897-1						
Sampling Date	Jul 06, 2022 11:00 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Jul 07, 2022						
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	8.21	No Standard	Based on APHA (2017), 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 : Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Siriluk P.

Siriluk Puengpang
Supervisor



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: 2284532

Date Received : Aug 03, 2022

Date Reported : Aug 15, 2022

Report Number : 2369730-1 C4

Page 1 of 1

Sample Number	2284532-1
Sampling Date	Aug 03, 2022 11:30 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Aug 03, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	18	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	7	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	282	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	APHA (2017), 2540 D	Rayong

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 : Pathompong Kornawat , Thanasoun Namakunna

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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: 2284532

Date Received : Aug 03, 2022

Date Reported : Aug 15, 2022

Report Number : 2369730-3 C4

Page 1 of 1

Sample Number	2284532-1						
Sampling Date	Aug 03, 2022 11:30 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Aug 04, 2022						
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	4.02	No Standard	Based on APHA (2017), 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 : Pathompong Kornawat , Thanasoun Namakunna

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Approved by

Siriluk P.

Siriluk Puengpang
Supervisor

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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: 2296689

Date Received : Sep 07, 2022

Date Reported : Sep 15, 2022

Report Number : 2397601-1 C4

Page 1 of 1

Sample Number	2296689-1						
Sampling Date	Sep 07, 2022 2:10 PM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Sep 07, 2022						
Condition of Sample	Contained in six glass vials, four 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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	5	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.2	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	178	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 , Thanasoun Namakunna

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: 2296689

Date Received : Sep 07, 2022

Date Reported : Sep 15, 2022

Report Number : 2397601-3 C4

Page 1 of 1

Sample Number	2296689-1						
Sampling Date	Sep 07, 2022 2:10 PM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Sep 08, 2022						
Condition of Sample	Contained in six glass vials, four 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	3.09	No Standard	Based on APHA (2017), 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 , Thanasoun Namakunna

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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: 22110977

Date Received : Oct 04, 2022

Date Reported : Dec 22, 2022

Report Number : 2427394-1 C4

Page 1 of 1

Sample Number	22110977-1
Sampling Date	Oct 04, 2022 10:10 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Oct 04, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	18	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	9	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	9	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	326	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 , Thanasoun Namakunna

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: 22110977

Date Received : Oct 04, 2022
Date Reported : Dec 22, 2022
Report Number : 2427394-3 C4

Page 1 of 1

Sample Number 22110977-1
Sampling Date Oct 04, 2022 10:10 AM
Sample Description Wastewater
Location Outfall
Date Analysis Commenced Oct 05, 2022
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	7.63	No Standard	Based on APHA (2017), 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 , Thanasoun Namakunna

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang
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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: 22121774

Date Received : Nov 01, 2022

Date Reported : Jan 05, 2023

Report Number : 2452487-1 Rev. No.1 C4

Page 1 of 1

Sample Number	22121774-1
Sampling Date	Nov 01, 2022 11:09 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Nov 01, 2022
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	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	31	≤120	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	9	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	404	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	APHA (2017), 2540 D	Rayong

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 : This Analysis test report is reissued to supersede report No.2452487-3, Date Reported : Nov 09, 2022 due to revise sample information.

Sampling By : Wanlop Hunchainaow , Thanasoun Namakunna

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

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: 22121774

Date Received : Nov 01, 2022

Date Reported : Jan 05, 2023

Report Number : 2452487-3 Rev. No.1 C

Page 1 of 1

Sample Number	22121774-1
Sampling Date	Nov 01, 2022 11:09 AM
Sample Description	Wastewater
Location	Outfall
Date Analysis Commenced	Nov 02, 2022
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	8.00	No Standard	Based on APHA (2017), 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 : This Analysis test report is reissued to supersede report No.2452487-3, Date Reported : Nov 09, 2022 due to revise sample information.

Sampling By : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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

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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: 22136120

Date Received : Dec 09, 2022

Date Reported : Dec 19, 2022

Report Number : 2486131-1 C4

Page 1 of 2

Sample Number	22136120-1						
Sampling Date	Dec 09, 2022 10:30 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Dec 09, 2022						
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	<2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	27	≤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	15	≤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 *		-	-	7.6	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	-	-	30.8	≤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	820	≤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

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).

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

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: 22136120

Date Received : Dec 09, 2022

Date Reported : Dec 19, 2022

Report Number : 2486131-1 C4

Page 2 of 2

Sampling By : Tanasit Wongsachai , Thanasoun Namakunna

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

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: 22136120

Date Received : Dec 09, 2022
Date Reported : Dec 19, 2022
Report Number : 2486131-3 C4

Page 1 of 1

Sample Number	22136120-1						
Sampling Date	Dec 09, 2022 10:30 AM						
Sample Description	Wastewater						
Location	Outfall						
Date Analysis Commenced	Dec 10, 2022						
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	11.4	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 : Tanasit Wongsachai , Thanasoun Namakunna

Remark :

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

Approved by

Chanattagarn Imchom
Supervisor

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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 : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 22114731

Date Received : Sep 16, 2022

Date Reported : Sep 20, 2022

Report Number: 2439222-1

Page 1 of 1

Sample Number 22114731-1
Parameter Noise (Leq 24 hrs.)
Location มุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 15 - Aug 16, 2022
Measurement by Sawai Tonpho
Sound Level meter Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.9	77.2	47.8
11:00 AM - 12:00 PM	51.2	68.2	46.3
12:00 PM - 01:00 PM	56.8	72.9	48.0
01:00 PM - 02:00 PM	60.5	74.6	50.2
02:00 PM - 03:00 PM	59.6	73.4	51.9
03:00 PM - 04:00 PM	59.1	80.3	50.9
04:00 PM - 05:00 PM	59.6	80.6	50.9
05:00 PM - 06:00 PM	58.3	79.4	51.1
06:00 PM - 07:00 PM	54.6	73.8	49.7
07:00 PM - 08:00 PM	56.2	73.3	53.4
08:00 PM - 09:00 PM	61.5	74.4	60.1
09:00 PM - 10:00 PM	60.9	72.9	57.9
10:00 PM - 11:00 PM	57.7	69.9	56.4
11:00 PM - 12:00 AM	50.2	73.6	46.2
12:00 AM - 01:00 AM	46.4	64.5	43.4
01:00 AM - 02:00 AM	45.8	65.4	42.7
02:00 AM - 03:00 AM	48.1	61.8	42.8
03:00 AM - 04:00 AM	53.9	66.3	43.0
04:00 AM - 05:00 AM	59.6	66.9	53.6
05:00 AM - 06:00 AM	56.0	74.3	45.4
06:00 AM - 07:00 AM	51.9	70.6	47.4
07:00 AM - 08:00 AM	54.2	76.1	47.7
08:00 AM - 09:00 AM	58.5	71.8	48.0
09:00 AM - 10:00 AM	59.7	78.7	51.8

Leq Average 24 hrs. (dB(A)) 57.4
Lmax (dB(A)) 80.6
L90 (dB(A)) 48.0
Ldn (dB(A)) 61.8

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

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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 : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 22114731

Date Received : Sep 16, 2022

Date Reported : Sep 20, 2022

Report Number: 2439223-1

Page 1 of 1

Sample Number 22114731-2
Parameter Noise (Leq 24 hrs.)
Location มุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - Aug 17, 2022
Measurement by Sawai Tonpho
Sound Level meter Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.2	83.4	48.5
11:00 AM - 12:00 PM	55.2	76.3	49.7
12:00 PM - 01:00 PM	55.4	78.0	48.6
01:00 PM - 02:00 PM	58.7	76.3	51.8
02:00 PM - 03:00 PM	57.1	79.4	48.8
03:00 PM - 04:00 PM	57.7	79.5	49.0
04:00 PM - 05:00 PM	57.5	79.9	51.7
05:00 PM - 06:00 PM	55.9	77.7	51.3
06:00 PM - 07:00 PM	56.9	80.5	50.0
07:00 PM - 08:00 PM	54.1	79.3	48.9
08:00 PM - 09:00 PM	54.4	81.6	48.6
09:00 PM - 10:00 PM	54.1	75.4	48.5
10:00 PM - 11:00 PM	53.6	82.1	46.9
11:00 PM - 12:00 AM	51.5	77.7	46.1
12:00 AM - 01:00 AM	50.3	72.4	44.3
01:00 AM - 02:00 AM	50.5	80.7	43.8
02:00 AM - 03:00 AM	49.4	77.0	43.8
03:00 AM - 04:00 AM	53.7	76.3	45.3
04:00 AM - 05:00 AM	52.6	68.5	45.5
05:00 AM - 06:00 AM	52.7	76.9	47.1
06:00 AM - 07:00 AM	55.8	76.5	51.2
07:00 AM - 08:00 AM	55.5	72.5	50.9
08:00 AM - 09:00 AM	57.3	80.9	50.2
09:00 AM - 10:00 AM	57.8	79.0	50.4

Leq Average 24 hrs. (dB(A)) 55.5
Lmax (dB(A)) 83.4
L90 (dB(A)) 48.6
Ldn (dB(A)) 59.9
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

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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 : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Lot ID: 22114731

Date Received : Sep 16, 2022

Date Reported : Sep 20, 2022

Report Number: 2439224-1

Page 1 of 1

Sample Number 22114731-3
Parameter Noise (Leq 24 hrs.)
Location มุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - Aug 18, 2022
Measurement by Sawai Tonpho
Sound Level meter Serial No. 1122567

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.8	77.6	48.6
11:00 AM - 12:00 PM	56.8	76.7	49.9
12:00 PM - 01:00 PM	53.7	77.0	48.4
01:00 PM - 02:00 PM	55.1	72.9	47.8
02:00 PM - 03:00 PM	57.4	81.5	50.0
03:00 PM - 04:00 PM	56.3	78.4	50.0
04:00 PM - 05:00 PM	57.5	75.2	52.7
05:00 PM - 06:00 PM	55.3	78.7	51.0
06:00 PM - 07:00 PM	55.2	78.4	49.9
07:00 PM - 08:00 PM	56.2	75.8	52.3
08:00 PM - 09:00 PM	54.6	80.9	48.3
09:00 PM - 10:00 PM	54.0	78.3	48.6
10:00 PM - 11:00 PM	53.6	75.5	48.1
11:00 PM - 12:00 AM	51.1	76.2	45.2
12:00 AM - 01:00 AM	50.3	79.0	43.0
01:00 AM - 02:00 AM	49.2	80.4	42.9
02:00 AM - 03:00 AM	47.7	66.0	44.0
03:00 AM - 04:00 AM	48.3	73.1	43.5
04:00 AM - 05:00 AM	46.6	62.7	42.9
05:00 AM - 06:00 AM	50.7	69.4	46.1
06:00 AM - 07:00 AM	54.6	73.4	49.9
07:00 AM - 08:00 AM	56.0	74.6	50.4
08:00 AM - 09:00 AM	58.4	73.9	51.5
09:00 AM - 10:00 AM	58.2	75.8	50.1

Leq Average 24 hrs. (dB(A)) 54.9
Lmax (dB(A)) 81.5
L90 (dB(A)) 48.6
Ldn (dB(A)) 58.7
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

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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

Lot ID: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443947-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 22114735-1
Parameter เสียงรบกวน
Location ขนุนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 15 - 16, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด (A)	เสียงขณะ ไม่มีการรบกวน (B)	ผลต่าง ระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D)		เสียงพื้นฐาน (E)	ค่าระดับ การรบกวน (D-E)
					กลางวัน (A-C)	กลางคืน (A-C)+3		
10:00 AM - 11:00 AM	52.9	52.9	0.0	7.0	45.9	-	45.5	0.4
11:00 AM - 12:00 PM	51.2	54.0	-2.8	7.0	44.2	-	46.9	-2.7
12:00 PM - 01:00 PM	56.8	52.3	4.5	1.5	55.3	-	45.4	9.9
01:00 PM - 02:00 PM	60.5	52.5	8.0	0.5	60.0	-	44.9	15.1
02:00 PM - 03:00 PM	59.6	52.6	7.0	1.0	58.6	-	45.2	13.4
03:00 PM - 04:00 PM	59.1	52.8	6.3	1.5	57.6	-	46.7	10.9
04:00 PM - 05:00 PM	59.6	55.1	4.5	1.5	58.1	-	49.7	8.4
05:00 PM - 06:00 PM	58.3	56.1	2.2	4.5	53.8	-	51.0	2.8
06:00 PM - 07:00 PM	54.6	56.4	-1.8	7.0	47.6	-	50.7	-3.1
07:00 PM - 08:00 PM	56.2	56.6	-0.4	7.0	49.2	-	51.5	-2.3
08:00 PM - 09:00 PM	61.5	56.1	5.4	1.5	60.0	-	51.8	8.2
09:00 PM - 10:00 PM	60.9	55.8	5.1	1.5	59.4	-	50.1	9.3
10:00 PM - 10:05 PM	54.9	53.1	1.8	4.5	-	53.4	48.3	5.1
10:05 PM - 10:10 PM	52.5	53.1	-0.6	7.0	-	48.5	48.0	0.5
10:10 PM - 10:15 PM	53.7	55.6	-1.9	7.0	-	49.7	51.9	-2.2
10:15 PM - 10:20 PM	58.5	54.3	4.2	2.0	-	59.5	51.9	7.6
10:20 PM - 10:25 PM	58.3	56.1	2.2	4.5	-	56.8	52.3	4.5
10:25 PM - 10:30 PM	58.9	54.3	4.6	1.5	-	60.4	51.6	8.8
10:30 PM - 10:35 PM	60.7	56.3	4.4	2.0	-	61.7	51.9	9.8
10:35 PM - 10:40 PM	59.6	53.9	5.7	1.5	-	61.1	50.8	10.3
10:40 PM - 10:45 PM	56.7	53.7	3.0	3.0	-	56.7	49.8	6.9
10:45 PM - 10:50 PM	56.2	54.7	1.5	4.5	-	54.7	48.4	6.3
10:50 PM - 10:55 PM	58.4	52.6	5.8	1.5	-	59.9	49.0	10.9
10:55 PM - 11:00 PM	57.3	55.5	1.8	4.5	-	55.8	49.2	6.6
11:00 PM - 11:05 PM	53.5	55.2	-1.7	7.0	-	49.5	48.7	0.8
11:05 PM - 11:10 PM	52.6	53.3	-0.7	7.0	-	48.6	48.9	-0.3
11:10 PM - 11:15 PM	48.8	52.6	-3.8	7.0	-	44.8	48.1	-3.3
11:15 PM - 11:20 PM	47.3	53.4	-6.1	7.0	-	43.3	49.2	-5.9
11:20 PM - 11:25 PM	49.6	53.5	-3.9	7.0	-	45.6	48.5	-2.9
11:25 PM - 11:30 PM	52.5	52.1	0.4	7.0	-	48.5	48.2	0.3
11:30 PM - 11:35 PM	46.8	53.2	-6.4	7.0	-	42.8	49.3	-6.5
11:35 PM - 11:40 PM	49.2	54.8	-5.6	7.0	-	45.2	49.1	-3.9
11:40 PM - 11:45 PM	48.1	54.0	-5.9	7.0	-	44.1	48.4	-4.3
11:45 PM - 11:50 PM	50.5	52.5	-2.0	7.0	-	46.5	48.2	-1.7
11:50 PM - 11:55 PM	48.1	53.5	-5.4	7.0	-	44.1	49.3	-5.2
11:55 PM - 12:00 AM	48.4	53.5	-5.1	7.0	-	44.4	48.6	-4.2
12:00 AM - 12:05 AM	46.6	53.9	-7.3	7.0	-	42.6	49.2	-6.6
12:05 AM - 12:10 AM	46.6	52.6	-6.0	7.0	-	42.6	48.7	-6.1
12:10 AM - 12:15 AM	45.3	50.9	-5.6	7.0	-	41.3	48.6	-7.3
12:15 AM - 12:20 AM	47.4	50.7	-3.3	7.0	-	43.4	47.2	-3.8

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

Wilawan Borirak
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443947-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 22114735-1
Parameter เสียงรบกวน
Location ขุมขนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 15 - 16, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))								
เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
12:20 AM - 12:25 AM	46.0	50.3	-4.3	7.0	-	42.0	47.7	-5.7
12:25 AM - 12:30 AM	46.9	50.2	-3.3	7.0	-	42.9	47.4	-4.5
12:30 AM - 12:35 AM	46.6	48.7	-2.1	7.0	-	42.6	44.4	-1.8
12:35 AM - 12:40 AM	46.5	55.4	-8.9	7.0	-	42.5	47.2	-4.7
12:40 AM - 12:45 AM	45.0	52.1	-7.1	7.0	-	41.0	48.2	-7.2
12:45 AM - 12:50 AM	46.6	50.1	-3.5	7.0	-	42.6	48.3	-5.7
12:50 AM - 12:55 AM	45.6	50.6	-5.0	7.0	-	41.6	48.0	-6.4
12:55 AM - 01:00 AM	47.3	50.2	-2.9	7.0	-	43.3	47.8	-4.5
01:00 AM - 01:05 AM	45.6	49.2	-3.6	7.0	-	41.6	45.0	-3.4
01:05 AM - 01:10 AM	42.5	48.3	-5.8	7.0	-	38.5	45.4	-6.9
01:10 AM - 01:15 AM	45.8	56.5	-10.7	7.0	-	41.8	44.9	-3.1
01:15 AM - 01:20 AM	46.4	51.6	-5.2	7.0	-	42.4	45.0	-2.6
01:20 AM - 01:25 AM	47.8	54.4	-6.6	7.0	-	43.8	44.6	-0.8
01:25 AM - 01:30 AM	46.3	61.6	-15.3	7.0	-	42.3	44.0	-1.7
01:30 AM - 01:35 AM	43.9	54.9	-11.0	7.0	-	39.9	44.6	-4.7
01:35 AM - 01:40 AM	44.6	48.2	-3.6	7.0	-	40.6	45.0	-4.4
01:40 AM - 01:45 AM	45.0	54.9	-9.9	7.0	-	41.0	45.4	-4.4
01:45 AM - 01:50 AM	44.9	47.3	-2.4	7.0	-	40.9	44.3	-3.4
01:50 AM - 01:55 AM	48.7	48.2	0.5	7.0	-	44.7	43.4	1.3
01:55 AM - 02:00 AM	44.8	46.4	-1.6	7.0	-	40.8	44.2	-3.4
02:00 AM - 02:05 AM	49.0	47.2	1.8	4.5	-	47.5	43.5	4.0
02:05 AM - 02:10 AM	47.0	50.2	-3.2	7.0	-	43.0	44.2	-1.2
02:10 AM - 02:15 AM	44.3	48.8	-4.5	7.0	-	40.3	44.1	-3.8
02:15 AM - 02:20 AM	44.2	49.2	-5.0	7.0	-	40.2	44.2	-4.0
02:20 AM - 02:25 AM	48.3	48.2	0.1	7.0	-	44.3	44.2	0.1
02:25 AM - 02:30 AM	45.2	46.6	-1.4	7.0	-	41.2	44.0	-2.8
02:30 AM - 02:35 AM	49.1	46.1	3.0	3.0	-	49.1	43.3	5.8
02:35 AM - 02:40 AM	47.0	47.3	-0.3	7.0	-	43.0	43.3	-0.3
02:40 AM - 02:45 AM	46.2	48.3	-2.1	7.0	-	42.2	43.5	-1.3
02:45 AM - 02:50 AM	52.2	47.6	4.6	1.5	-	53.7	42.9	10.8
02:50 AM - 02:55 AM	50.5	48.4	2.1	4.5	-	49.0	43.0	6.0
02:55 AM - 03:00 AM	45.6	52.3	-6.7	7.0	-	41.6	43.0	-1.4
03:00 AM - 03:05 AM	50.7	47.9	2.8	3.0	-	50.7	43.3	7.4
03:05 AM - 03:10 AM	52.6	45.0	7.6	0.5	-	55.1	42.7	12.4
03:10 AM - 03:15 AM	47.6	50.0	-2.4	7.0	-	43.6	44.1	-0.5
03:15 AM - 03:20 AM	52.4	45.2	7.2	1.0	-	54.4	43.1	11.3
03:20 AM - 03:25 AM	52.2	47.5	4.7	1.5	-	53.7	44.7	9.0
03:25 AM - 03:30 AM	53.6	47.6	6.0	1.5	-	55.1	46.0	9.1
03:30 AM - 03:35 AM	54.9	51.1	3.8	2.0	-	55.9	47.2	8.7
03:35 AM - 03:40 AM	56.2	50.0	6.2	1.5	-	57.7	46.7	11.0

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Approved by

Wilawan Borirak

Wilawan Borirak
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443947-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 22114735-1
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 15 - 16, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
03:40 AM - 03:45 AM	54.7	50.6	4.1	2.0	-	55.7	45.5	10.2
03:45 AM - 03:50 AM	53.8	58.5	-4.7	7.0	-	49.8	48.9	0.9
03:50 AM - 03:55 AM	55.8	56.9	-1.1	7.0	-	51.8	48.0	3.8
03:55 AM - 04:00 AM	55.9	50.0	5.9	1.5	-	57.4	47.7	9.7
04:00 AM - 04:05 AM	57.6	53.0	4.6	1.5	-	59.1	47.1	12.0
04:05 AM - 04:10 AM	58.3	53.1	5.2	1.5	-	59.8	45.2	14.6
04:10 AM - 04:15 AM	59.6	46.9	12.7	0.0	-	62.6	44.3	18.3
04:15 AM - 04:20 AM	57.4	49.1	8.3	0.5	-	59.9	46.4	13.5
04:20 AM - 04:25 AM	59.2	49.4	9.8	0.5	-	61.7	46.8	14.9
04:25 AM - 04:30 AM	61.1	54.5	6.6	1.0	-	63.1	47.1	16.0
04:30 AM - 04:35 AM	58.7	48.7	10.0	0.5	-	61.2	45.9	15.3
04:35 AM - 04:40 AM	59.5	50.9	8.6	0.5	-	62.0	46.8	15.2
04:40 AM - 04:45 AM	56.4	49.1	7.3	1.0	-	58.4	45.8	12.6
04:45 AM - 04:50 AM	61.7	48.8	12.9	0.0	-	64.7	45.3	19.4
04:50 AM - 04:55 AM	61.3	49.6	11.7	0.5	-	63.8	46.2	17.6
04:55 AM - 05:00 AM	60.8	50.5	10.3	0.5	-	63.3	48.5	14.8
05:00 AM - 05:05 AM	59.6	56.8	2.8	3.0	-	59.6	45.7	13.9
05:05 AM - 05:10 AM	59.3	50.2	9.1	0.5	-	61.8	45.9	15.9
05:10 AM - 05:15 AM	58.9	51.2	7.7	0.5	-	61.4	47.3	14.1
05:15 AM - 05:20 AM	57.8	49.7	8.1	0.5	-	60.3	46.7	13.6
05:20 AM - 05:25 AM	59.2	52.4	6.8	1.0	-	61.2	46.7	14.5
05:25 AM - 05:30 AM	51.9	51.0	0.9	7.0	-	47.9	46.6	1.3
05:30 AM - 05:35 AM	49.2	50.9	-1.7	7.0	-	45.2	46.2	-1.0
05:35 AM - 05:40 AM	52.7	54.7	-2.0	7.0	-	48.7	50.4	-1.7
05:40 AM - 05:45 AM	51.3	51.7	-0.4	7.0	-	47.3	47.6	-0.3
05:45 AM - 05:50 AM	49.5	50.3	-0.8	7.0	-	45.5	45.8	-0.3
05:50 AM - 05:55 AM	49.6	52.7	-3.1	7.0	-	45.6	46.3	-0.7
05:55 AM - 06:00 AM	49.4	51.8	-2.4	7.0	-	45.4	47.8	-2.4
06:00 AM - 07:00 AM	51.9	55.7	-3.8	7.0	44.9	-	50.4	-5.5
07:00 AM - 08:00 AM	54.2	56.1	-1.9	7.0	47.2	-	49.9	-2.7
08:00 AM - 09:00 AM	58.5	53.8	4.7	1.5	57.0	-	47.0	10.0
09:00 AM - 10:00 AM	59.7	53.1	6.6	1.0	58.7	-	46.1	12.6
ค่ามาตรฐาน								≤ 10

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
- ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 15-16 สิงหาคม 2565
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2227105-1 วันที่ตรวจวัด 25-26 กรกฎาคม 2565)

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
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443948-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 22114735-2
Parameter เสียงรบกวน
Location ขนุนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - 17, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด (A)	เสียงขณะ ไม่มีการรบกวน (B)	ผลต่าง ระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D)		เสียงพื้นฐาน (E)	ค่าระดับ การรบกวน (D-E)
					กลางวัน (A-C)	กลางคืน (A-C)+3		
10:00 AM - 11:00 AM	57.2	52.9	4.3	2.0	55.2	-	45.5	9.7
11:00 AM - 12:00 PM	55.2	54.0	1.2	7.0	48.2	-	46.9	1.3
12:00 PM - 01:00 PM	55.4	52.3	3.1	3.0	52.4	-	45.4	7.0
01:00 PM - 02:00 PM	58.7	52.5	6.2	1.5	57.2	-	44.9	12.3
02:00 PM - 03:00 PM	57.1	52.6	4.5	1.5	55.6	-	45.2	10.4
03:00 PM - 04:00 PM	57.7	52.8	4.9	1.5	56.2	-	46.7	9.5
04:00 PM - 05:00 PM	57.5	55.1	2.4	4.5	53.0	-	49.7	3.3
05:00 PM - 06:00 PM	55.9	56.1	-0.2	7.0	48.9	-	51.0	-2.1
06:00 PM - 07:00 PM	56.9	56.4	0.5	7.0	49.9	-	50.7	-0.8
07:00 PM - 08:00 PM	54.1	56.6	-2.5	7.0	47.1	-	51.5	-4.4
08:00 PM - 09:00 PM	54.4	56.1	-1.7	7.0	47.4	-	51.8	-4.4
09:00 PM - 10:00 PM	54.1	55.8	-1.7	7.0	47.1	-	50.1	-3.0
10:00 PM - 10:05 PM	53.0	53.1	-0.1	7.0	-	49.0	48.3	0.7
10:05 PM - 10:10 PM	53.5	53.1	0.4	7.0	-	49.5	48.0	1.5
10:10 PM - 10:15 PM	52.3	55.6	-3.3	7.0	-	48.3	51.9	-3.6
10:15 PM - 10:20 PM	50.2	54.3	-4.1	7.0	-	46.2	51.9	-5.7
10:20 PM - 10:25 PM	51.2	56.1	-4.9	7.0	-	47.2	52.3	-5.1
10:25 PM - 10:30 PM	51.4	54.3	-2.9	7.0	-	47.4	51.6	-4.2
10:30 PM - 10:35 PM	53.1	56.3	-3.2	7.0	-	49.1	51.9	-2.8
10:35 PM - 10:40 PM	58.0	53.9	4.1	2.0	-	59.0	50.8	8.2
10:40 PM - 10:45 PM	52.1	53.7	-1.6	7.0	-	48.1	49.8	-1.7
10:45 PM - 10:50 PM	55.4	54.7	0.7	7.0	-	51.4	48.4	3.0
10:50 PM - 10:55 PM	55.4	52.6	2.8	3.0	-	55.4	49.0	6.4
10:55 PM - 11:00 PM	50.2	55.5	-5.3	7.0	-	46.2	49.2	-3.0
11:00 PM - 11:05 PM	51.8	55.2	-3.4	7.0	-	47.8	48.7	-0.9
11:05 PM - 11:10 PM	55.5	53.3	2.2	4.5	-	54.0	48.9	5.1
11:10 PM - 11:15 PM	49.7	52.6	-2.9	7.0	-	45.7	48.1	-2.4
11:15 PM - 11:20 PM	49.0	53.4	-4.4	7.0	-	45.0	49.2	-4.2
11:20 PM - 11:25 PM	50.4	53.5	-3.1	7.0	-	46.4	48.5	-2.1
11:25 PM - 11:30 PM	50.5	52.1	-1.6	7.0	-	46.5	48.2	-1.7
11:30 PM - 11:35 PM	51.6	53.2	-1.6	7.0	-	47.6	49.3	-1.7
11:35 PM - 11:40 PM	51.1	54.8	-3.7	7.0	-	47.1	49.1	-2.0
11:40 PM - 11:45 PM	51.3	54.0	-2.7	7.0	-	47.3	48.4	-1.1
11:45 PM - 11:50 PM	50.9	52.5	-1.6	7.0	-	46.9	48.2	-1.3
11:50 PM - 11:55 PM	52.5	53.5	-1.0	7.0	-	48.5	49.3	-0.8
11:55 PM - 12:00 AM	49.0	53.5	-4.5	7.0	-	45.0	48.6	-3.6
12:00 AM - 12:05 AM	47.5	53.9	-6.4	7.0	-	43.5	49.2	-5.7
12:05 AM - 12:10 AM	49.0	52.6	-3.6	7.0	-	45.0	48.7	-3.7
12:10 AM - 12:15 AM	53.8	50.9	2.9	3.0	-	53.8	48.6	5.2
12:15 AM - 12:20 AM	51.6	50.7	0.9	7.0	-	47.6	47.2	0.4

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

Wilawan Borirak
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443948-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 22114735-2
Parameter เสียงรบกวน
Location ขุมขนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - 17, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
12:20 AM - 12:25 AM	51.4	50.3	1.1	7.0	-	47.4	47.7	-0.3
12:25 AM - 12:30 AM	50.2	50.2	0.0	7.0	-	46.2	47.4	-1.2
12:30 AM - 12:35 AM	51.4	48.7	2.7	3.0	-	51.4	44.4	7.0
12:35 AM - 12:40 AM	47.6	55.4	-7.8	7.0	-	43.6	47.2	-3.6
12:40 AM - 12:45 AM	48.4	52.1	-3.7	7.0	-	44.4	48.2	-3.8
12:45 AM - 12:50 AM	46.8	50.1	-3.3	7.0	-	42.8	48.3	-5.5
12:50 AM - 12:55 AM	52.2	50.6	1.6	4.5	-	50.7	48.0	2.7
12:55 AM - 01:00 AM	47.3	50.2	-2.9	7.0	-	43.3	47.8	-4.5
01:00 AM - 01:05 AM	47.9	49.2	-1.3	7.0	-	43.9	45.0	-1.1
01:05 AM - 01:10 AM	48.4	48.3	0.1	7.0	-	44.4	45.4	-1.0
01:10 AM - 01:15 AM	48.9	56.5	-7.6	7.0	-	44.9	44.9	0.0
01:15 AM - 01:20 AM	48.3	51.6	-3.3	7.0	-	44.3	45.0	-0.7
01:20 AM - 01:25 AM	47.3	54.4	-7.1	7.0	-	43.3	44.6	-1.3
01:25 AM - 01:30 AM	49.8	61.6	-11.8	7.0	-	45.8	44.0	1.8
01:30 AM - 01:35 AM	49.6	54.9	-5.3	7.0	-	45.6	44.6	1.0
01:35 AM - 01:40 AM	57.6	48.2	9.4	0.5	-	60.1	45.0	15.1
01:40 AM - 01:45 AM	49.0	54.9	-5.9	7.0	-	45.0	45.4	-0.4
01:45 AM - 01:50 AM	46.9	47.3	-0.4	7.0	-	42.9	44.3	-1.4
01:50 AM - 01:55 AM	49.3	48.2	1.1	7.0	-	45.3	43.4	1.9
01:55 AM - 02:00 AM	47.0	46.4	0.6	7.0	-	43.0	44.2	-1.2
02:00 AM - 02:05 AM	51.7	47.2	4.5	1.5	-	53.2	43.5	9.7
02:05 AM - 02:10 AM	49.1	50.2	-1.1	7.0	-	45.1	44.2	0.9
02:10 AM - 02:15 AM	46.5	48.8	-2.3	7.0	-	42.5	44.1	-1.6
02:15 AM - 02:20 AM	48.6	49.2	-0.6	7.0	-	44.6	44.2	0.4
02:20 AM - 02:25 AM	48.3	48.2	0.1	7.0	-	44.3	44.2	0.1
02:25 AM - 02:30 AM	47.3	46.6	0.7	7.0	-	43.3	44.0	-0.7
02:30 AM - 02:35 AM	47.8	46.1	1.7	4.5	-	46.3	43.3	3.0
02:35 AM - 02:40 AM	49.4	47.3	2.1	4.5	-	47.9	43.3	4.6
02:40 AM - 02:45 AM	51.8	48.3	3.5	2.0	-	52.8	43.5	9.3
02:45 AM - 02:50 AM	50.0	47.6	2.4	4.5	-	48.5	42.9	5.6
02:50 AM - 02:55 AM	50.4	48.4	2.0	4.5	-	48.9	43.0	5.9
02:55 AM - 03:00 AM	49.0	52.3	-3.3	7.0	-	45.0	43.0	2.0
03:00 AM - 03:05 AM	57.4	47.9	9.5	0.5	-	59.9	43.3	16.6
03:05 AM - 03:10 AM	52.7	45.0	7.7	0.5	-	55.2	42.7	12.5
03:10 AM - 03:15 AM	55.5	50.0	5.5	1.5	-	57.0	44.1	12.9
03:15 AM - 03:20 AM	55.6	45.2	10.4	0.5	-	58.1	43.1	15.0
03:20 AM - 03:25 AM	53.9	47.5	6.4	1.5	-	55.4	44.7	10.7
03:25 AM - 03:30 AM	51.9	47.6	4.3	2.0	-	52.9	46.0	6.9
03:30 AM - 03:35 AM	53.0	51.1	1.9	4.5	-	51.5	47.2	4.3
03:35 AM - 03:40 AM	50.9	50.0	0.9	7.0	-	46.9	46.7	0.2

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
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443948-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 22114735-2
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 16 - 17, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
03:40 AM - 03:45 AM	52.0	50.6	1.4	7.0	-	48.0	45.5	2.5
03:45 AM - 03:50 AM	51.9	58.5	-6.6	7.0	-	47.9	48.9	-1.0
03:50 AM - 03:55 AM	53.0	56.9	-3.9	7.0	-	49.0	48.0	1.0
03:55 AM - 04:00 AM	51.6	50.0	1.6	4.5	-	50.1	47.7	2.4
04:00 AM - 04:05 AM	53.3	53.0	0.3	7.0	-	49.3	47.1	2.2
04:05 AM - 04:10 AM	53.1	53.1	0.0	7.0	-	49.1	45.2	3.9
04:10 AM - 04:15 AM	51.8	46.9	4.9	1.5	-	53.3	44.3	9.0
04:15 AM - 04:20 AM	53.6	49.1	4.5	1.5	-	55.1	46.4	8.7
04:20 AM - 04:25 AM	52.1	49.4	2.7	3.0	-	52.1	46.8	5.3
04:25 AM - 04:30 AM	52.0	54.5	-2.5	7.0	-	48.0	47.1	0.9
04:30 AM - 04:35 AM	51.6	48.7	2.9	3.0	-	51.6	45.9	5.7
04:35 AM - 04:40 AM	54.3	50.9	3.4	3.0	-	54.3	46.8	7.5
04:40 AM - 04:45 AM	53.6	49.1	4.5	1.5	-	55.1	45.8	9.3
04:45 AM - 04:50 AM	52.6	48.8	3.8	2.0	-	53.6	45.3	8.3
04:50 AM - 04:55 AM	50.1	49.6	0.5	7.0	-	46.1	46.2	-0.1
04:55 AM - 05:00 AM	52.1	50.5	1.6	4.5	-	50.6	48.5	2.1
05:00 AM - 05:05 AM	51.3	56.8	-5.5	7.0	-	47.3	45.7	1.6
05:05 AM - 05:10 AM	53.6	50.2	3.4	3.0	-	53.6	45.9	7.7
05:10 AM - 05:15 AM	52.3	51.2	1.1	7.0	-	48.3	47.3	1.0
05:15 AM - 05:20 AM	53.9	49.7	4.2	2.0	-	54.9	46.7	8.2
05:20 AM - 05:25 AM	50.6	52.4	-1.8	7.0	-	46.6	46.7	-0.1
05:25 AM - 05:30 AM	50.8	51.0	-0.2	7.0	-	46.8	46.6	0.2
05:30 AM - 05:35 AM	50.6	50.9	-0.3	7.0	-	46.6	46.2	0.4
05:35 AM - 05:40 AM	50.9	54.7	-3.8	7.0	-	46.9	50.4	-3.5
05:40 AM - 05:45 AM	51.4	51.7	-0.3	7.0	-	47.4	47.6	-0.2
05:45 AM - 05:50 AM	51.8	50.3	1.5	4.5	-	50.3	45.8	4.5
05:50 AM - 05:55 AM	52.5	52.7	-0.2	7.0	-	48.5	46.3	2.2
05:55 AM - 06:00 AM	57.0	51.8	5.2	1.5	-	58.5	47.8	10.7
06:00 AM - 07:00 AM	55.8	55.7	0.1	7.0	48.8	-	50.4	-1.6
07:00 AM - 08:00 AM	55.5	56.1	-0.6	7.0	48.5	-	49.9	-1.4
08:00 AM - 09:00 AM	57.3	53.8	3.5	2.0	55.3	-	47.0	8.3
09:00 AM - 10:00 AM	57.8	53.1	4.7	1.5	56.3	-	46.1	10.2
ค่ามาตรฐาน								≤ 10

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
- ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 15-16 สิงหาคม 2565
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2227105-1 วันที่ตรวจวัด 25-26 กรกฎาคม 2565)

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

Wilawan Borirak
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443949-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 1 of 3

Sample No. 22114735-3
Parameter เสียงรบกวน
Location ขนขนาควาน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - 18, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด (A)	เสียงขณะ ไม่มีการรบกวน (B)	ผลต่าง ระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D)		เสียงพื้นฐาน (E)	ค่าระดับ การรบกวน (D-E)
					กลางวัน (A-C)	กลางคืน (A-C)+3		
10:00 AM - 11:00 AM	55.8	52.9	2.9	3.0	52.8	-	45.5	7.3
11:00 AM - 12:00 PM	56.8	54.0	2.8	3.0	53.8	-	46.9	6.9
12:00 PM - 01:00 PM	53.7	52.3	1.4	7.0	46.7	-	45.4	1.3
01:00 PM - 02:00 PM	55.1	52.5	2.6	3.0	52.1	-	44.9	7.2
02:00 PM - 03:00 PM	57.4	52.6	4.8	1.5	55.9	-	45.2	10.7
03:00 PM - 04:00 PM	56.3	52.8	3.5	2.0	54.3	-	46.7	7.6
04:00 PM - 05:00 PM	57.5	55.1	2.4	4.5	53.0	-	49.7	3.3
05:00 PM - 06:00 PM	55.3	56.1	-0.8	7.0	48.3	-	51.0	-2.7
06:00 PM - 07:00 PM	55.2	56.4	-1.2	7.0	48.2	-	50.7	-2.5
07:00 PM - 08:00 PM	56.2	56.6	-0.4	7.0	49.2	-	51.5	-2.3
08:00 PM - 09:00 PM	54.6	56.1	-1.5	7.0	47.6	-	51.8	-4.2
09:00 PM - 10:00 PM	54.0	55.8	-1.8	7.0	47.0	-	50.1	-3.1
10:00 PM - 10:05 PM	57.6	53.1	4.5	1.5	-	59.1	48.3	10.8
10:05 PM - 10:10 PM	55.9	53.1	2.8	3.0	-	55.9	48.0	7.9
10:10 PM - 10:15 PM	55.6	55.6	0.0	7.0	-	51.6	51.9	-0.3
10:15 PM - 10:20 PM	56.0	54.3	1.7	4.5	-	54.5	51.9	2.6
10:20 PM - 10:25 PM	51.8	56.1	-4.3	7.0	-	47.8	52.3	-4.5
10:25 PM - 10:30 PM	53.0	54.3	-1.3	7.0	-	49.0	51.6	-2.6
10:30 PM - 10:35 PM	50.4	56.3	-5.9	7.0	-	46.4	51.9	-5.5
10:35 PM - 10:40 PM	49.3	53.9	-4.6	7.0	-	45.3	50.8	-5.5
10:40 PM - 10:45 PM	49.0	53.7	-4.7	7.0	-	45.0	49.8	-4.8
10:45 PM - 10:50 PM	48.9	54.7	-5.8	7.0	-	44.9	48.4	-3.5
10:50 PM - 10:55 PM	51.7	52.6	-0.9	7.0	-	47.7	49.0	-1.3
10:55 PM - 11:00 PM	52.9	55.5	-2.6	7.0	-	48.9	49.2	-0.3
11:00 PM - 11:05 PM	51.0	55.2	-4.2	7.0	-	47.0	48.7	-1.7
11:05 PM - 11:10 PM	50.0	53.3	-3.3	7.0	-	46.0	48.9	-2.9
11:10 PM - 11:15 PM	48.7	52.6	-3.9	7.0	-	44.7	48.1	-3.4
11:15 PM - 11:20 PM	49.9	53.4	-3.5	7.0	-	45.9	49.2	-3.3
11:20 PM - 11:25 PM	51.3	53.5	-2.2	7.0	-	47.3	48.5	-1.2
11:25 PM - 11:30 PM	49.5	52.1	-2.6	7.0	-	45.5	48.2	-2.7
11:30 PM - 11:35 PM	51.1	53.2	-2.1	7.0	-	47.1	49.3	-2.2
11:35 PM - 11:40 PM	56.1	54.8	1.3	7.0	-	52.1	49.1	3.0
11:40 PM - 11:45 PM	48.6	54.0	-5.4	7.0	-	44.6	48.4	-3.8
11:45 PM - 11:50 PM	51.5	52.5	-1.0	7.0	-	47.5	48.2	-0.7
11:50 PM - 11:55 PM	50.3	53.5	-3.2	7.0	-	46.3	49.3	-3.0
11:55 PM - 12:00 AM	49.0	53.5	-4.5	7.0	-	45.0	48.6	-3.6
12:00 AM - 12:05 AM	57.5	53.9	3.6	2.0	-	58.5	49.2	9.3
12:05 AM - 12:10 AM	47.8	52.6	-4.8	7.0	-	43.8	48.7	-4.9
12:10 AM - 12:15 AM	47.3	50.9	-3.6	7.0	-	43.3	48.6	-5.3
12:15 AM - 12:20 AM	45.9	50.7	-4.8	7.0	-	41.9	47.2	-5.3

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
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443949-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 2 of 3

Sample No. 22114735-3
Parameter เสียงรบกวน
Location ขุมขนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - 18, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
12:20 AM - 12:25 AM	47.2	50.3	-3.1	7.0	-	43.2	47.7	-4.5
12:25 AM - 12:30 AM	49.8	50.2	-0.4	7.0	-	45.8	47.4	-1.6
12:30 AM - 12:35 AM	47.4	48.7	-1.3	7.0	-	43.4	44.4	-1.0
12:35 AM - 12:40 AM	46.2	55.4	-9.2	7.0	-	42.2	47.2	-5.0
12:40 AM - 12:45 AM	45.5	52.1	-6.6	7.0	-	41.5	48.2	-6.7
12:45 AM - 12:50 AM	49.5	50.1	-0.6	7.0	-	45.5	48.3	-2.8
12:50 AM - 12:55 AM	52.3	50.6	1.7	4.5	-	50.8	48.0	2.8
12:55 AM - 01:00 AM	44.5	50.2	-5.7	7.0	-	40.5	47.8	-7.3
01:00 AM - 01:05 AM	45.4	49.2	-3.8	7.0	-	41.4	45.0	-3.6
01:05 AM - 01:10 AM	46.6	48.3	-1.7	7.0	-	42.6	45.4	-2.8
01:10 AM - 01:15 AM	47.4	56.5	-9.1	7.0	-	43.4	44.9	-1.5
01:15 AM - 01:20 AM	46.7	51.6	-4.9	7.0	-	42.7	45.0	-2.3
01:20 AM - 01:25 AM	45.9	54.4	-8.5	7.0	-	41.9	44.6	-2.7
01:25 AM - 01:30 AM	50.7	61.6	-10.9	7.0	-	46.7	44.0	2.7
01:30 AM - 01:35 AM	47.0	54.9	-7.9	7.0	-	43.0	44.6	-1.6
01:35 AM - 01:40 AM	45.1	48.2	-3.1	7.0	-	41.1	45.0	-3.9
01:40 AM - 01:45 AM	44.3	54.9	-10.6	7.0	-	40.3	45.4	-5.1
01:45 AM - 01:50 AM	44.7	47.3	-2.6	7.0	-	40.7	44.3	-3.6
01:50 AM - 01:55 AM	56.5	48.2	8.3	0.5	-	59.0	43.4	15.6
01:55 AM - 02:00 AM	49.3	46.4	2.9	3.0	-	49.3	44.2	5.1
02:00 AM - 02:05 AM	45.9	47.2	-1.3	7.0	-	41.9	43.5	-1.6
02:05 AM - 02:10 AM	46.1	50.2	-4.1	7.0	-	42.1	44.2	-2.1
02:10 AM - 02:15 AM	45.1	48.8	-3.7	7.0	-	41.1	44.1	-3.0
02:15 AM - 02:20 AM	46.2	49.2	-3.0	7.0	-	42.2	44.2	-2.0
02:20 AM - 02:25 AM	47.5	48.2	-0.7	7.0	-	43.5	44.2	-0.7
02:25 AM - 02:30 AM	50.7	46.6	4.1	2.0	-	51.7	44.0	7.7
02:30 AM - 02:35 AM	48.7	46.1	2.6	3.0	-	48.7	43.3	5.4
02:35 AM - 02:40 AM	48.7	47.3	1.4	7.0	-	44.7	43.3	1.4
02:40 AM - 02:45 AM	47.3	48.3	-1.0	7.0	-	43.3	43.5	-0.2
02:45 AM - 02:50 AM	47.3	47.6	-0.3	7.0	-	43.3	42.9	0.4
02:50 AM - 02:55 AM	48.5	48.4	0.1	7.0	-	44.5	43.0	1.5
02:55 AM - 03:00 AM	47.4	52.3	-4.9	7.0	-	43.4	43.0	0.4
03:00 AM - 03:05 AM	47.1	47.9	-0.8	7.0	-	43.1	43.3	-0.2
03:05 AM - 03:10 AM	53.5	45.0	8.5	0.5	-	56.0	42.7	13.3
03:10 AM - 03:15 AM	48.0	50.0	-2.0	7.0	-	44.0	44.1	-0.1
03:15 AM - 03:20 AM	46.4	45.2	1.2	7.0	-	42.4	43.1	-0.7
03:20 AM - 03:25 AM	45.9	47.5	-1.6	7.0	-	41.9	44.7	-2.8
03:25 AM - 03:30 AM	47.1	47.6	-0.5	7.0	-	43.1	46.0	-2.9
03:30 AM - 03:35 AM	46.4	51.1	-4.7	7.0	-	42.4	47.2	-4.8
03:35 AM - 03:40 AM	46.7	50.0	-3.3	7.0	-	42.7	46.7	-4.0

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
Assistant 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: 22114735
Date Received : Sep 16, 2022
Date Reported : Sep 23, 2022
Report Number : 2443949-1

P/O : 4512615548

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PU (PPTL)

Page 3 of 3

Sample No. 22114735-3
Parameter เสียงรบกวน
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769)
Measurement Date Aug 17 - 18, 2022
Measurement by Sawai Tonpho
Sound Level Meter 01122567

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
03:40 AM - 03:45 AM	46.5	50.6	-4.1	7.0	-	42.5	45.5	-3.0
03:45 AM - 03:50 AM	46.7	58.5	-11.8	7.0	-	42.7	48.9	-6.2
03:50 AM - 03:55 AM	45.8	56.9	-11.1	7.0	-	41.8	48.0	-6.2
03:55 AM - 04:00 AM	50.8	50.0	0.8	7.0	-	46.8	47.7	-0.9
04:00 AM - 04:05 AM	47.7	53.0	-5.3	7.0	-	43.7	47.1	-3.4
04:05 AM - 04:10 AM	45.4	53.1	-7.7	7.0	-	41.4	45.2	-3.8
04:10 AM - 04:15 AM	45.2	46.9	-1.7	7.0	-	41.2	44.3	-3.1
04:15 AM - 04:20 AM	46.7	49.1	-2.4	7.0	-	42.7	46.4	-3.7
04:20 AM - 04:25 AM	45.5	49.4	-3.9	7.0	-	41.5	46.8	-5.3
04:25 AM - 04:30 AM	46.1	54.5	-8.4	7.0	-	42.1	47.1	-5.0
04:30 AM - 04:35 AM	47.2	48.7	-1.5	7.0	-	43.2	45.9	-2.7
04:35 AM - 04:40 AM	47.0	50.9	-3.9	7.0	-	43.0	46.8	-3.8
04:40 AM - 04:45 AM	45.4	49.1	-3.7	7.0	-	41.4	45.8	-4.4
04:45 AM - 04:50 AM	47.8	48.8	-1.0	7.0	-	43.8	45.3	-1.5
04:50 AM - 04:55 AM	47.2	49.6	-2.4	7.0	-	43.2	46.2	-3.0
04:55 AM - 05:00 AM	46.8	50.5	-3.7	7.0	-	42.8	48.5	-5.7
05:00 AM - 05:05 AM	47.4	56.8	-9.4	7.0	-	43.4	45.7	-2.3
05:05 AM - 05:10 AM	48.0	50.2	-2.2	7.0	-	44.0	45.9	-1.9
05:10 AM - 05:15 AM	49.8	51.2	-1.4	7.0	-	45.8	47.3	-1.5
05:15 AM - 05:20 AM	47.8	49.7	-1.9	7.0	-	43.8	46.7	-2.9
05:20 AM - 05:25 AM	48.5	52.4	-3.9	7.0	-	44.5	46.7	-2.2
05:25 AM - 05:30 AM	51.4	51.0	0.4	7.0	-	47.4	46.6	0.8
05:30 AM - 05:35 AM	50.5	50.9	-0.4	7.0	-	46.5	46.2	0.3
05:35 AM - 05:40 AM	51.4	54.7	-3.3	7.0	-	47.4	50.4	-3.0
05:40 AM - 05:45 AM	50.2	51.7	-1.5	7.0	-	46.2	47.6	-1.4
05:45 AM - 05:50 AM	51.2	50.3	0.9	7.0	-	47.2	45.8	1.4
05:50 AM - 05:55 AM	52.2	52.7	-0.5	7.0	-	48.2	46.3	1.9
05:55 AM - 06:00 AM	54.5	51.8	2.7	3.0	-	54.5	47.8	6.7
06:00 AM - 07:00 AM	54.6	55.7	-1.1	7.0	47.6	-	50.4	-2.8
07:00 AM - 08:00 AM	56.0	56.1	-0.1	7.0	49.0	-	49.9	-0.9
08:00 AM - 09:00 AM	58.4	53.8	4.6	1.5	56.9	-	47.0	9.9
09:00 AM - 10:00 AM	58.2	53.1	5.1	1.5	56.7	-	46.1	10.6

ค่ามาตรฐาน

≤ 10

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
- ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 15-16 สิงหาคม 2565
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2227105-1 วันที่ตรวจวัด 25-26 กรกฎาคม 2565)

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Approved by

Wilawan Borirak
Assistant Manager



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

Lot ID: 2227105
Date Received :Jul 29, 2022
Date Reported :Aug 03, 2022
Report No. : 2393119-1

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

Page 1 of 3

Sample No. 2227105-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Jul 25 - 26, 2022
Measurement by Puwanart Pimpan
Sound Level Meter 00597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.9	77.7	45.5
11:00 AM - 12:00 PM	54.0	76.8	46.9
12:00 PM - 01:00 PM	52.3	69.1	45.4
01:00 PM - 02:00 PM	52.5	72.2	44.9
02:00 PM - 03:00 PM	52.6	73.1	45.2
03:00 PM - 04:00 PM	52.8	70.8	46.7
04:00 PM - 05:00 PM	55.1	73.0	49.7
05:00 PM - 06:00 PM	56.1	76.5	51.0
06:00 PM - 07:00 PM	56.4	75.8	50.7
07:00 PM - 08:00 PM	56.6	79.4	51.5
08:00 PM - 09:00 PM	56.1	78.9	51.8
09:00 PM - 10:00 PM	55.8	75.9	50.1
10:00 PM - 10:05 PM	53.1	65.3	48.3
10:05 PM - 10:10 PM	53.1	69.6	48.0
10:10 PM - 10:15 PM	55.6	73.6	51.9
10:15 PM - 10:20 PM	54.3	60.9	51.9
10:20 PM - 10:25 PM	56.1	68.3	52.3
10:25 PM - 10:30 PM	54.3	64.4	51.6
10:30 PM - 10:35 PM	56.3	74.4	51.9
10:35 PM - 10:40 PM	53.9	66.7	50.8
10:40 PM - 10:45 PM	53.7	65.8	49.8
10:45 PM - 10:50 PM	54.7	72.3	48.4
10:50 PM - 10:55 PM	52.6	62.5	49.0
10:55 PM - 11:00 PM	55.5	76.0	49.2
11:00 PM - 11:05 PM	55.2	69.5	48.7
11:05 PM - 11:10 PM	53.3	61.5	48.9
11:10 PM - 11:15 PM	52.6	60.6	48.1
11:15 PM - 11:20 PM	53.4	62.0	49.2
11:20 PM - 11:25 PM	53.5	69.5	48.5
11:25 PM - 11:30 PM	52.1	61.7	48.2
11:30 PM - 11:35 PM	53.2	67.8	49.3
11:35 PM - 11:40 PM	54.8	71.2	49.1
11:40 PM - 11:45 PM	54.0	71.3	48.4
11:45 PM - 11:50 PM	52.5	69.1	48.2
11:50 PM - 11:55 PM	53.5	64.3	49.3
11:55 PM - 12:00 AM	53.5	72.7	48.6
12:00 AM - 12:05 AM	53.9	69.6	49.2
12:05 AM - 12:10 AM	52.6	63.2	48.7
12:10 AM - 12:15 AM	50.9	67.8	48.6
12:15 AM - 12:20 AM	50.7	61.9	47.2

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Approved by

Kanokkorn Anek
Senior Manager



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

Lot ID: 2227105
Date Received : Jul 29, 2022
Date Reported : Aug 03, 2022
Report No. : 2393119-1

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

Page 2 of 3

Sample No. 2227105-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Jul 25 - 26, 2022
Measurement by Puwanart Pimpan
Sound Level Meter 00597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	50.3	60.8	47.7
12:25 AM - 12:30 AM	50.2	63.5	47.4
12:30 AM - 12:35 AM	48.7	64.1	44.4
12:35 AM - 12:40 AM	55.4	74.8	47.2
12:40 AM - 12:45 AM	52.1	68.3	48.2
12:45 AM - 12:50 AM	50.1	58.9	48.3
12:50 AM - 12:55 AM	50.6	63.5	48.0
12:55 AM - 01:00 AM	50.2	60.2	47.8
01:00 AM - 01:05 AM	49.2	61.3	45.0
01:05 AM - 01:10 AM	48.3	58.5	45.4
01:10 AM - 01:15 AM	56.5	80.3	44.9
01:15 AM - 01:20 AM	51.6	70.7	45.0
01:20 AM - 01:25 AM	54.4	76.3	44.6
01:25 AM - 01:30 AM	61.6	83.6	44.0
01:30 AM - 01:35 AM	54.9	76.8	44.6
01:35 AM - 01:40 AM	48.2	61.9	45.0
01:40 AM - 01:45 AM	54.9	75.8	45.4
01:45 AM - 01:50 AM	47.3	59.9	44.3
01:50 AM - 01:55 AM	48.2	62.2	43.4
01:55 AM - 02:00 AM	46.4	56.2	44.2
02:00 AM - 02:05 AM	47.2	61.1	43.5
02:05 AM - 02:10 AM	50.2	63.3	44.2
02:10 AM - 02:15 AM	48.8	64.3	44.1
02:15 AM - 02:20 AM	49.2	63.6	44.2
02:20 AM - 02:25 AM	48.2	64.9	44.2
02:25 AM - 02:30 AM	46.6	57.8	44.0
02:30 AM - 02:35 AM	46.1	58.1	43.3
02:35 AM - 02:40 AM	47.3	62.9	43.3
02:40 AM - 02:45 AM	48.3	67.1	43.5
02:45 AM - 02:50 AM	47.6	64.0	42.9
02:50 AM - 02:55 AM	48.4	65.5	43.0
02:55 AM - 03:00 AM	52.3	70.2	43.0
03:00 AM - 03:05 AM	47.9	62.1	43.3
03:05 AM - 03:10 AM	45.0	56.5	42.7
03:10 AM - 03:15 AM	50.0	71.0	44.1
03:15 AM - 03:20 AM	45.2	56.7	43.1
03:20 AM - 03:25 AM	47.5	66.1	44.7
03:25 AM - 03:30 AM	47.6	56.4	46.0
03:30 AM - 03:35 AM	51.1	63.2	47.2
03:35 AM - 03:40 AM	50.0	61.7	46.7

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Approved by

Kanokkorn Anek
Senior Manager



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

Lot ID: 2227105
Date Received : Jul 29, 2022
Date Reported : Aug 03, 2022
Report No. : 2393119-1

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

Page 3 of 3

Sample No. 2227105-1
Parameter Noise
Location ชุมชนตากวน-อ่าวประดู่ (GPS 47P 0735531, 1402769) (Shut down)
Measurement Date Jul 25 - 26, 2022
Measurement by Puwanart Pimpan
Sound Level Meter 00597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	50.6	69.7	45.5
03:45 AM - 03:50 AM	58.5	68.9	48.9
03:50 AM - 03:55 AM	56.9	67.5	48.0
03:55 AM - 04:00 AM	50.0	56.7	47.7
04:00 AM - 04:05 AM	53.0	71.9	47.1
04:05 AM - 04:10 AM	53.1	72.1	45.2
04:10 AM - 04:15 AM	46.9	57.2	44.3
04:15 AM - 04:20 AM	49.1	57.9	46.4
04:20 AM - 04:25 AM	49.4	59.0	46.8
04:25 AM - 04:30 AM	54.5	65.8	47.1
04:30 AM - 04:35 AM	48.7	54.9	45.9
04:35 AM - 04:40 AM	50.9	65.5	46.8
04:40 AM - 04:45 AM	49.1	63.6	45.8
04:45 AM - 04:50 AM	48.8	59.6	45.3
04:50 AM - 04:55 AM	49.6	61.6	46.2
04:55 AM - 05:00 AM	50.5	60.8	48.5
05:00 AM - 05:05 AM	56.8	78.7	45.7
05:05 AM - 05:10 AM	50.2	63.5	45.9
05:10 AM - 05:15 AM	51.2	66.4	47.3
05:15 AM - 05:20 AM	49.7	58.9	46.7
05:20 AM - 05:25 AM	52.4	73.4	46.7
05:25 AM - 05:30 AM	51.0	61.2	46.6
05:30 AM - 05:35 AM	50.9	60.3	46.2
05:35 AM - 05:40 AM	54.7	62.9	50.4
05:40 AM - 05:45 AM	51.7	62.1	47.6
05:45 AM - 05:50 AM	50.3	59.3	45.8
05:50 AM - 05:55 AM	52.7	65.4	46.3
05:55 AM - 06:00 AM	51.8	60.2	47.8
06:00 AM - 07:00 AM	55.7	72.2	50.4
07:00 AM - 08:00 AM	56.1	77.5	49.9
08:00 AM - 09:00 AM	53.8	82.9	47.0
09:00 AM - 10:00 AM	53.1	74.3	46.1

Reference Method : Based on ISO 1996-1 and ISO 1996-2

Note : This Analysis test report is reissued to supersede report No. 2036565-1, Date Reported : Aug 03, 2021 due to revise sample information.

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Approved by

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