

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม
โครงการโรงงานผลิตสารโพลีโออล (ส่วนขยาย ครั้งที่ 2)

ภาคผนวก ค-1

ผลการตรวจวัดสารอินทรีย์ระเหยในบรรยากาศ



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 22154309

Date Received : Jan 04, 2023

Date Reported : Jan 11, 2023

Report Number : 2530916-1C15

Page 1 of 1

Sample Number 22154309-1
Sampled Date Jan 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านประทุมมิตรบำรุง (GPS 47P 0726292, 1407282)
Date Analysis Commenced Jan 05, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 759 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/01/23 - 04/01/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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

Note : - Prachum Mit Bamrung Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Nantawat Sarin

Remark :

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

Approved by

Sararat Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 22154314

Date Received : Jan 04, 2023

Date Reported : Jan 11, 2023

Report Number : 2530922-1C15

Page 1 of 1

Sample Number 22154314-1
Sampled Date Jan 03, 2023
Sample Description Air Quality
Location ชุมชนพุด (GPS 47P 0724377, 1402458)
Date Analysis Commenced Jan 05, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 759 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/01/23 - 04/01/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : - Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Nantawat Sarin

Remark :

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Approved by

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 22154315

Date Received : Jan 04, 2023

Date Reported : Jan 11, 2023

Report Number : 2530926-1C15

Page 1 of 1

Sample Number 22154315-1
Sampled Date Jan 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านประมง (GPS 47P 0730826, 1407366)
Date Analysis Commenced Jan 05, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 759 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/01/23 - 04/01/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : - Map Cha Lood Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Nantawat Sarin

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 231659

Date Received : Feb 02, 2023

Date Reported : Feb 15, 2023

Report Number : 2535753-1C15

Page 1 of 3

Sample Number 231659-1
Sampled Date Feb 01, 2023
Sample Description Air Quality
Location ชุมชนบ้านประมง (GPS 47P 0726292, 1407282)
Date Analysis Commenced Feb 03, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/02/23 - 02/02/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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Note : - Prachum Mit Bamrung Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Sawai Torpho

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 231659

Date Received : Feb 02, 2023

Date Reported : Feb 15, 2023

Report Number : 2535753-1C15

Page 2 of 3

Sample Number 231659-2
Sampled Date Feb 01, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Feb 03, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/02/23 - 02/02/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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Note : - Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Sawai Tonpho

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 231659

Date Received : Feb 02, 2023

Date Reported : Feb 15, 2023

Report Number : 2535753-1C15

Page 3 of 3

Sample Number 231659-3
Sampled Date Feb 01, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Feb 03, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/02/23 - 02/02/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : - Map Cha Lood Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Sawai Tonpho

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 2320914

Date Received : Mar 03, 2023

Date Reported : Mar 15, 2023

Report Number : 2576772-1C15

Page 1 of 3

Sample Number	2320914-1
Sampled Date	Mar 01, 2023
Sample Description	Air Quality
Location	ชุมชนบ้านประจักษ์ศิลปาคม (GPS 47P 0726292, 1407282)
Date Analysis Commenced	Mar 03, 2023
Condition of Sample	Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure	760 mmHg
Atmospheric Temperature	34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/03/23 - 02/03/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : - Prachum Mit Bamrung Community station has moderate traffic, Cloudy, Normal activity, Nearby temple, school and Community

Sampled By : Saknarin Jaraskay

Remark :

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Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 2320914

Date Received : Mar 03, 2023

Date Reported : Mar 15, 2023

Report Number : 2576772-1C15

Page 2 of 3

Sample Number	2320914-2
Sampled Date	Mar 01, 2023
Sample Description	Air Quality
Location	ชุมชนพนา (GPS 47P 0724377, 1402458)
Date Analysis Commenced	Mar 03, 2023
Condition of Sample	Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure	760 mmHg
Atmospheric Temperature	34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/03/23 - 02/03/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : - Pa Yoon Community station has moderate traffic, Cloudy, Normal activity, Nearby temple, school and Community

Sampled By : Saknarin Jaraskay

Remark :

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Tanyatorn Mongkonjirawut
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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 2320914

Date Received : Mar 03, 2023

Date Reported : Mar 15, 2023

Report Number : 2576772-1C15

Page 3 of 3

Sample Number 2320914-3
Sampled Date Mar 01, 2023
Sample Description Air Quality
Location ชุมชนบ้านหนองจอก (GPS 47P 0730826, 1407366)
Date Analysis Commenced Mar 03, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/03/23 - 02/03/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Sampled By : Saknarin Jaraskay

Remark :

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Tanyatorm Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 2336706

Date Received : Apr 04, 2023

Date Reported : Apr 11, 2023

Report Number : 2610615-1C15

Page 1 of 3

Sample Number 2336706-1
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านประจักษ์ศิลปาคม (GPS 47P 0726292, 1407282)
Date Analysis Commenced Apr 05, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/04/23 - 04/04/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : - Prachum Mit Bamrung Community station has moderate traffic clear sky, Normal activity, Nearby temple and Community

Sampled By : Wichan Choonharat

Remark :

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

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Polyol
Project Location :

Lot ID: 2336706
Date Received : Apr 04, 2023
Date Reported : Apr 11, 2023
Report Number : 2610615-1C15

Page 2 of 3

Sample Number 2336706-2
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Apr 05, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/04/23 - 04/04/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

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Note : - Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community
Sampled By : Wichan Choonharat
Remark :
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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Polyol
Project Location :

Lot ID: 2336706
Date Received : Apr 04, 2023
Date Reported : Apr 11, 2023
Report Number : 2610615-1C15

Page 3 of 3

Sample Number 2336706-3
Sampled Date Apr 03, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Apr 05, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/04/23 - 04/04/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

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Sampled By : Wichan Choonharat
Remark :
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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2347997

Date Received : May 06, 2023

Date Reported : Jun 26, 2023

Report Number : 2635864-1C15

Page 1 of 3

Sample Number 2347997-1
Sampled Date May 05, 2023
Sample Description Air Quality
Location ชุมชนบ้านประจักษ์ศิลปาคม (GPS 47P 0726292, 1407282)
Date Analysis Commenced May 09, 2023
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	05/05/23 - 06/05/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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

Note : - Prachum Mit Bamrung Community station has moderate traffic clear sky, Normal activit, Nearby temple and Community

Sampled By : Chatchai Sukpia

Remark :

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

Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2347997

Date Received : May 06, 2023

Date Reported : Jun 26, 2023

Report Number : 2635864-1C15

Page 2 of 3

Sample Number 2347997-2
Sampled Date May 05, 2023
Sample Description Air Quality
Location ชุมชนพุดนุ (GPS 47P 0724377, 1402458)
Date Analysis Commenced May 09, 2023
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	05/05/23 - 06/05/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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

Note : - Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community

Sampled By : Chatchai Sukpia

Remark :

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

Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 2347997
Date Received : May 06, 2023
Date Reported : Jun 26, 2023
Report Number : 2635864-1C15

Page 3 of 3

Sample Number 2347997-3
Sampled Date May 05, 2023
Sample Description Air Quality
Location ทุ่งนาบ้านประจักษ์ (GPS 47P 0730826, 1407366)
Date Analysis Commenced May 09, 2023
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	05/05/23 - 06/05/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : - Map Cha Lood Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community

Sampled By : Chatchai Sukpia

Remark :

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

Approved by

Tanyatorm Mongkonjirawat
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 2362372
Date Received : Jun 07, 2023
Date Reported : Jun 26, 2023
Report Number : 2667125-1C15

Page 1 of 3

Sample Number 2362372-1
Sampled Date Jun 06, 2023
Sample Description Air Quality
Location ทุ่งนาบ้านประจักษ์ (GPS 47P 0726292, 1407282)
Date Analysis Commenced Jun 08, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	06/06/23 - 07/06/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : - Prachum Mit Bamrung Community station has moderate traffic Cloudy with light to moderate rain, Normal activit, Nearby temple and Community

Sampled By : Suphachai Wongsurichai

Remark :

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

Approved by

Tanyatorm Mongkonjirawat
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2362372

Date Received : Jun 07, 2023

Date Reported : Jun 26, 2023

Report Number : 2667125-1C15

Page 2 of 3

Sample Number 2362372-2
Sampled Date Jun 06, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Jun 08, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	06/06/23 - 07/06/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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

Note : - Pa Yoon Community station has moderate traffic, Cloudy with light to moderate rain, Normal activity, Nearby temple, school and Community

Sampled By : Suphachai Wongsurichai

Remark :

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

Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Client : Dow Chemical Thailand Ltd.

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Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2362372

Date Received : Jun 07, 2023

Date Reported : Jun 26, 2023

Report Number : 2667125-1C15

Page 3 of 3

Sample Number 2362372-3
Sampled Date Jun 06, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Jun 08, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	06/06/23 - 07/06/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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

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

Note : - Map Cha Lood Community station has moderate traffic, Cloudy with light to moderate rain, Normal activity, Nearby temple, school and Community

Sampled By : Suphachai Wongsurichai

Remark :

- LOD : Limit of Detection
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Approved by

Tanyatorn Mongkonjirawut
Supervisor

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ภาคผนวก ค-2

ผลการตรวจวัดคุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159018
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 232066
Date Received : Feb 08, 2023
Date Reported : Feb 21, 2023
Report Number : 2536572-1 Rev. No.1

Page 1 of 2

Sample Number 232066-1
Sampled Date Feb 07, 2023
Sample Description Air Quality
Location หน่วยปฏิบัติการ
Date Analysis Commenced Feb 09, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Note : This Analysis test report is reissued to supersede report No. 2536572-1 Date Reported : Feb 15, 2023 due to revise sample information.

Sampled By : Natthapon Jiengwareewong

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

Approved by

Saranya C.

Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159018
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 232066
Date Received : Feb 08, 2023
Date Reported : Feb 21, 2023
Report Number : 2536572-1 Rev. No.1

Page 2 of 2

Sample Number 232066-2
Sampled Date Feb 07, 2023
Sample Description Air Quality
Location หน่วยปฏิบัติการ
Personal Sampling คณะวิศวกรรมศาสตร์
Date Analysis Commenced Feb 09, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Note : This Analysis test report is reissued to supersede report No. 2536572-1 Date Reported : Feb 15, 2023 due to revise sample information.

Sampled By : Natthapon Jiengwareewong

Remark :
- LOD : Limit of Detection
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Approved by

Saranya C.

Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159080
Project Name : Environmental Quality Monitoring
Project Location : Polyol

Lot ID: 232069
Date Received : Feb 08, 2023
Date Reported : Feb 21, 2023
Report Number : 2536582-1 Rev. No.1

Page 1 of 2

Sample Number 232069-1
Sampled Date Feb 07, 2023
Sample Description Air Quality
Location หน่วยช่างปฏิบัติการของสายการผลิตที่ 2
Date Analysis Commenced Feb 09, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Note : This Analysis test report is reissued to supersede report No. 2536582-1 Date Reported : Feb 15, 2023 due to revise sample information.

Sampled By : Natthapon Jiengwareewong

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159080
Project Name : Environmental Quality Monitoring
Project Location : Polyol

Lot ID: 232069
Date Received : Feb 08, 2023
Date Reported : Feb 21, 2023
Report Number : 2536582-1 Rev. No.1

Page 2 of 2

Sample Number 232069-2
Sampled Date Feb 07, 2023
Sample Description Air Quality
Location สุ่มตรวจพนักงานที่ปฏิบัติงานในกระบวนการผลิต
Personal Sampling คุณภาพพงษ์ ลาวีมิตร
Date Analysis Commenced Feb 09, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Note : This Analysis test report is reissued to supersede report No. 2536582-1 Date Reported : Feb 15, 2023 due to revise sample information.

Sampled By : Natthapon Jiengwareewong

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159018
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2348293
Date Received : May 10, 2023
Date Reported : May 18, 2023
Report Number : 2636565-1

Page 1 of 2

Sample Number 2348293-1
Sampled Date May 09, 2023
Sample Description Air Quality
Location หน่วยช่างกลโรงงาน
Date Analysis Commenced May 11, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:15 AM - 11:15 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Norranon Tathongkham

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

Approved by

Orawan R.

Orawan Rakhyong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159018
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2348293
Date Received : May 10, 2023
Date Reported : May 18, 2023
Report Number : 2636565-1

Page 2 of 2

Sample Number 2348293-2
Sampled Date May 09, 2023
Sample Description Air Quality
Location หน่วยช่างกลโรงงาน
Personal Sampling คุณณรงค์ เขตกิจ
Date Analysis Commenced May 11, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:15 AM - 11:15 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Norranon Tathongkham

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

Approved by

Orawan R.

Orawan Rakhyong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159080
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 2348316
Date Received : May 10, 2023
Date Reported : May 18, 2023
Report Number : 2636665-1

Page 1 of 2

Sample Number 2348316-1
Sampled Date May 09, 2023
Sample Description Air Quality
Location หน่วยปฏิบัติการของสายการผลิต 2
Date Analysis Commenced May 11, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:20 AM - 11:20 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Norranon Tathongkham

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159080
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 2348316
Date Received : May 10, 2023
Date Reported : May 18, 2023
Report Number : 2636665-1

Page 2 of 2

Sample Number 2348316-2
Sampled Date May 09, 2023
Sample Description Air Quality
Location สุ่มตรวจพนักงานที่ปฏิบัติงานในกระบวนการผลิต
Personal Sampling คุณวัลลภ จันทร์ฉาย
Date Analysis Commenced May 11, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:20 AM - 11:20 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Norranon Tathongkham

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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ภาคผนวก ค-3

ผลการตรวจวิเคราะห์คุณภาพน้ำเสียจากกระบวนการผลิต



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O :
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 232809

Date Received : Jan 11, 2023
Date Reported : Jan 18, 2023
Report Number : 2538410-1

Page 1 of 1

Sample Number	232809-1
Sampled Date	Jan 11, 2023 10:55 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Jan 12, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2660	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	11966	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	110	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	6.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	13	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Pathompong Kornasawat โทร 09-323-9-9468

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

Technical Management

N. Banchookit

Narumon Banchookit
Supervisor
โทร 09-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร 09-323-9-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4701275070
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 237045

Date Received : Feb 01, 2023
Date Reported : Feb 08, 2023
Report Number : 2547676-1

Page 1 of 1

Sample Number	237045-1
Sampled Date	Feb 01, 2023 10:50 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Feb 02, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5652	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	13880	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	136	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	6.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Chainusorn Lertnanthakunchai โทร 09-323-9-9461

Remark :
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Technical Management

N. Banchookit

Narumon Banchookit
Supervisor
โทร 09-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร 09-323-9-9442

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand

21130

P/O : 4701275070

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant

Lot ID: 2320349

Date Received : Mar 01, 2023

Date Reported : Mar 09, 2023

Report Number : 2575368-1

Page 1 of 1

Sample Number	2320349-1
Sampled Date	Mar 01, 2023 10:25 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Mar 01, 2023
Condition of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2710	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	14305	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	111	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	6.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	7	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ร-323-ก-9461

Remark :

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Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor

ทะเบียนเลขที่ ร-323-ก-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ร-323-ก-9442

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand

21130

P/O : 4701275070

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant

Lot ID: 2336717

Date Received : Apr 05, 2023

Date Reported : Apr 11, 2023

Report Number : 2610665-1

Page 1 of 1

Sample Number	2336717-1
Sampled Date	Apr 05, 2023 11:10 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Apr 05, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	909	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	17117	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	148	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	6.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	13	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Pathompong Kornasawet ทะเบียนเลขที่ ร-323-ก-9468

Remark :

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Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor

ทะเบียนเลขที่ ร-323-ก-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ร-323-ก-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4701275070
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 2347504
Date Received : May 03, 2023
Date Reported : May 11, 2023
Report Number : 2635027-1

Page 1 of 1

Sample Number	2347504-1
Sampled Date	May 03, 2023 11:14 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	May 03, 2023
Condition of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2647	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	13250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	103	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	5.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Pathompong Kornasawet โทร 09-323-9-9468

Remark :
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Technical Management

N. Bangkhit

Narumon Banchongkit
Supervisor
โทร 09-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร 09-323-9-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4701275070
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 2362423
Date Received : Jun 07, 2023
Date Reported : Jun 14, 2023
Report Number : 2667110-1

Page 1 of 1

Sample Number	2362423-1
Sampled Date	Jun 07, 2023 10:30 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Jun 07, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4146	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	17172	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	113	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	5.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Chainorn Lertnathakunchai โทร 09-323-9-9461

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Technical Management

N. Bangkhit

Narumon Banchongkit
Supervisor
โทร 09-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร 09-323-9-9442

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ผลการตรวจวัดระดับเสียงโดยทั่วไป



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577028-1

Page 1 of 1

Sample Number 2314750-1
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมนูแฟคเจอริ่ง จำกัด (GPS 47P 0726777, 1405417)
Measurement Date Feb 14 - Feb 15, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.6	77.7	58.8
10:00 AM - 11:00 AM	68.4	93.8	58.7
11:00 AM - 12:00 PM	60.7	78.1	58.7
12:00 PM - 01:00 PM	60.4	80.4	58.4
01:00 PM - 02:00 PM	60.7	81.0	58.8
02:00 PM - 03:00 PM	59.9	74.5	58.6
03:00 PM - 04:00 PM	60.3	77.8	58.6
04:00 PM - 05:00 PM	61.3	79.4	59.0
05:00 PM - 06:00 PM	62.3	80.3	59.4
06:00 PM - 07:00 PM	62.8	88.7	60.2
07:00 PM - 08:00 PM	61.6	75.2	60.5
08:00 PM - 09:00 PM	62.2	72.3	61.2
09:00 PM - 10:00 PM	61.6	69.1	60.8
10:00 PM - 11:00 PM	61.6	72.4	60.8
11:00 PM - 12:00 AM	60.9	69.9	60.2
12:00 AM - 01:00 AM	61.5	74.3	60.3
01:00 AM - 02:00 AM	60.9	67.3	60.3
02:00 AM - 03:00 AM	61.1	66.0	60.3
03:00 AM - 04:00 AM	60.9	66.3	60.1
04:00 AM - 05:00 AM	60.7	67.5	60.0
05:00 AM - 06:00 AM	62.2	83.9	59.9
06:00 AM - 07:00 AM	64.3	92.4	60.8
07:00 AM - 08:00 AM	62.6	77.9	59.8
08:00 AM - 09:00 AM	61.0	73.5	59.4

Leq Average 24 hrs. (dB(A))

62.2

Lmax (dB(A))

93.8

L90 (dB(A))

59.9

Ldn (dB(A))

68.2

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 Salameh
Section Head

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S:\Reports_Air Noise rpt (10.34AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577029-1

Page 1 of 1

Sample Number 2314750-2
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมนูแฟคเจอริ่ง จำกัด (GPS 47P 0726777, 1405417)
Measurement Date Feb 15 - Feb 16, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.7	74.3	59.1
10:00 AM - 11:00 AM	60.6	80.2	58.5
11:00 AM - 12:00 PM	61.3	83.8	58.5
12:00 PM - 01:00 PM	60.7	80.9	58.6
01:00 PM - 02:00 PM	59.6	70.6	58.4
02:00 PM - 03:00 PM	59.9	81.6	58.5
03:00 PM - 04:00 PM	60.7	82.9	58.7
04:00 PM - 05:00 PM	61.3	75.2	58.9
05:00 PM - 06:00 PM	62.2	73.0	59.4
06:00 PM - 07:00 PM	61.5	82.8	59.7
07:00 PM - 08:00 PM	60.3	71.5	59.4
08:00 PM - 09:00 PM	60.2	71.1	59.4
09:00 PM - 10:00 PM	60.3	67.0	59.6
10:00 PM - 11:00 PM	60.6	72.9	60.0
11:00 PM - 12:00 AM	61.6	70.1	60.7
12:00 AM - 01:00 AM	60.8	72.0	60.2
01:00 AM - 02:00 AM	60.7	65.7	60.2
02:00 AM - 03:00 AM	61.9	69.3	60.0
03:00 AM - 04:00 AM	60.5	66.9	59.9
04:00 AM - 05:00 AM	60.7	66.9	60.2
05:00 AM - 06:00 AM	62.7	78.4	60.2
06:00 AM - 07:00 AM	63.4	86.1	60.3
07:00 AM - 08:00 AM	62.7	84.0	59.5
08:00 AM - 09:00 AM	61.4	79.0	59.1

Leq Average 24 hrs. (dB(A))

61.2

Lmax (dB(A))

86.1

L90 (dB(A))

59.4

Ldn (dB(A))

67.9

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 Salameh
Section Head

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S:\Reports_Air Noise rpt (10.34AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577030-1

Page 1 of 1

Sample Number 2314750-3
Parameter Noise (Leq 24 hrs.)
Location ริมด้านทิศตะวันตกของพื้นที่บริษัท เอ็มทีพี โอเอซี แมกนีเซียม จำกัด (GPS 47P 0726777, 1405417)
Measurement Date Feb 16 - Feb 17, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	67.7	80.8	62.3
10:00 AM - 11:00 AM	64.1	82.2	61.8
11:00 AM - 12:00 PM	63.1	87.4	60.6
12:00 PM - 01:00 PM	63.4	83.1	60.6
01:00 PM - 02:00 PM	60.8	74.0	59.2
02:00 PM - 03:00 PM	60.3	71.5	58.9
03:00 PM - 04:00 PM	60.6	74.6	58.6
04:00 PM - 05:00 PM	61.5	78.4	58.8
05:00 PM - 06:00 PM	61.7	72.9	59.2
06:00 PM - 07:00 PM	60.6	71.3	59.6
07:00 PM - 08:00 PM	60.0	81.0	59.2
08:00 PM - 09:00 PM	60.5	69.5	59.5
09:00 PM - 10:00 PM	60.9	70.9	60.2
10:00 PM - 11:00 PM	61.3	70.2	60.4
11:00 PM - 12:00 AM	61.6	69.6	60.5
12:00 AM - 01:00 AM	61.5	70.2	60.4
01:00 AM - 02:00 AM	61.2	75.5	60.5
02:00 AM - 03:00 AM	62.0	66.0	61.2
03:00 AM - 04:00 AM	62.4	67.1	61.6
04:00 AM - 05:00 AM	62.3	68.0	61.5
05:00 AM - 06:00 AM	62.6	74.6	61.0
06:00 AM - 07:00 AM	64.1	82.7	61.3
07:00 AM - 08:00 AM	63.2	75.6	61.2
08:00 AM - 09:00 AM	62.0	73.9	60.8

Leq Average 24 hrs. (dB(A)) 62.4
Lmax (dB(A)) 87.4
L90 (dB(A)) 60.5
Ldn (dB(A)) 68.7
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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S:\Reports_Air Noise.rpt (10:34AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577031-1

Page 1 of 1

Sample Number 2314750-4
Parameter Noise (Leq 24 hrs.)
Location ริมด้านทิศตะวันตกของพื้นที่บริษัท เอ็มทีพี โอเอซี แมกนีเซียม จำกัด (GPS 47P 0726777, 1405417)
Measurement Date Feb 17 - Feb 18, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.5	72.8	59.9
10:00 AM - 11:00 AM	61.1	73.8	59.1
11:00 AM - 12:00 PM	61.1	81.8	59.0
12:00 PM - 01:00 PM	60.8	71.9	58.5
01:00 PM - 02:00 PM	60.4	80.7	58.3
02:00 PM - 03:00 PM	61.2	78.8	59.6
03:00 PM - 04:00 PM	60.7	78.4	59.0
04:00 PM - 05:00 PM	61.8	78.2	59.7
05:00 PM - 06:00 PM	63.5	89.9	60.8
06:00 PM - 07:00 PM	62.2	86.3	60.7
07:00 PM - 08:00 PM	62.1	69.8	61.3
08:00 PM - 09:00 PM	62.7	82.6	61.5
09:00 PM - 10:00 PM	62.7	70.9	61.8
10:00 PM - 11:00 PM	62.9	74.0	62.0
11:00 PM - 12:00 AM	62.7	68.3	61.9
12:00 AM - 01:00 AM	62.4	67.9	61.7
01:00 AM - 02:00 AM	62.1	70.6	61.3
02:00 AM - 03:00 AM	61.4	63.6	60.7
03:00 AM - 04:00 AM	61.2	66.7	60.6
04:00 AM - 05:00 AM	61.2	72.6	60.4
05:00 AM - 06:00 AM	62.8	82.5	60.7
06:00 AM - 07:00 AM	64.8	91.0	61.0
07:00 AM - 08:00 AM	61.8	76.6	60.3
08:00 AM - 09:00 AM	61.4	75.7	60.0

Leq Average 24 hrs. (dB(A)) 62.1
Lmax (dB(A)) 91.0
L90 (dB(A)) 60.6
Ldn (dB(A)) 68.8
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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S:\Reports_Air Noise.rpt (10:34AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577032-1

Page 1 of 1

Sample Number 2314750-5
Parameter Noise (Leq 24 hrs.)
Location ธันวาคม ๒๕๖๕
Measurement Date Feb 18 - Feb 19, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.8	72.0	60.3
10:00 AM - 11:00 AM	62.0	75.3	60.2
11:00 AM - 12:00 PM	62.2	83.1	59.9
12:00 PM - 01:00 PM	61.3	80.2	59.1
01:00 PM - 02:00 PM	60.1	74.9	58.7
02:00 PM - 03:00 PM	60.3	79.7	58.8
03:00 PM - 04:00 PM	60.3	77.1	58.3
04:00 PM - 05:00 PM	60.1	74.8	57.5
05:00 PM - 06:00 PM	62.3	89.0	58.4
06:00 PM - 07:00 PM	60.3	81.9	58.5
07:00 PM - 08:00 PM	59.3	67.6	58.5
08:00 PM - 09:00 PM	60.0	71.5	58.4
09:00 PM - 10:00 PM	59.6	68.1	58.8
10:00 PM - 11:00 PM	60.5	72.2	59.4
11:00 PM - 12:00 AM	60.6	72.4	59.4
12:00 AM - 01:00 AM	60.4	63.6	59.5
01:00 AM - 02:00 AM	61.3	66.9	60.4
02:00 AM - 03:00 AM	61.7	65.1	60.4
03:00 AM - 04:00 AM	60.3	65.5	59.5
04:00 AM - 05:00 AM	60.1	75.1	58.6
05:00 AM - 06:00 AM	62.2	81.6	58.8
06:00 AM - 07:00 AM	62.6	86.1	59.4
07:00 AM - 08:00 AM	60.1	77.5	58.1
08:00 AM - 09:00 AM	59.7	73.6	58.4

Leq Average 24 hrs. (dB(A))

60.9

Lmax (dB(A))

89.0

L90 (dB(A))

58.8

Ldn (dB(A))

67.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน 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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S:\Reports_Air Noise.rpt (10.35AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577033-1

Page 1 of 1

Sample Number 2314750-6
Parameter Noise (Leq 24 hrs.)
Location ธันวาคม ๒๕๖๕
Measurement Date Feb 19 - Feb 20, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.8	71.2	58.5
10:00 AM - 11:00 AM	61.1	79.5	58.8
11:00 AM - 12:00 PM	62.8	79.8	57.6
12:00 PM - 01:00 PM	60.2	76.0	56.9
01:00 PM - 02:00 PM	59.8	74.0	58.2
02:00 PM - 03:00 PM	60.3	73.3	58.8
03:00 PM - 04:00 PM	61.6	90.7	58.8
04:00 PM - 05:00 PM	61.8	75.7	60.1
05:00 PM - 06:00 PM	63.8	90.7	60.4
06:00 PM - 07:00 PM	61.3	71.8	59.8
07:00 PM - 08:00 PM	60.4	75.0	59.7
08:00 PM - 09:00 PM	60.8	68.9	60.1
09:00 PM - 10:00 PM	60.5	70.9	60.0
10:00 PM - 11:00 PM	60.5	69.5	60.1
11:00 PM - 12:00 AM	60.1	69.0	59.7
12:00 AM - 01:00 AM	60.5	68.1	59.6
01:00 AM - 02:00 AM	61.3	73.0	60.4
02:00 AM - 03:00 AM	61.5	67.1	60.6
03:00 AM - 04:00 AM	61.3	63.6	60.4
04:00 AM - 05:00 AM	61.2	70.4	60.3
05:00 AM - 06:00 AM	64.2	93.3	60.7
06:00 AM - 07:00 AM	61.5	81.7	59.3
07:00 AM - 08:00 AM	59.6	72.8	58.3
08:00 AM - 09:00 AM	60.0	71.5	58.3

Leq Average 24 hrs. (dB(A))

61.2

Lmax (dB(A))

93.3

L90 (dB(A))

59.7

Ldn (dB(A))

67.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน 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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S:\Reports_Air Noise.rpt (10.35AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314750

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577034-1

Page 1 of 1

Sample Number 2314750-7
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมกซ์เพลคเจอร์ จำกัด (GPS 47P 0726777, 1405417)
Measurement Date Feb 20 - Feb 21, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.3	71.5	59.1
10:00 AM - 11:00 AM	60.1	72.6	58.2
11:00 AM - 12:00 PM	59.9	78.7	58.3
12:00 PM - 01:00 PM	59.2	73.8	57.9
01:00 PM - 02:00 PM	59.5	77.1	58.2
02:00 PM - 03:00 PM	59.4	76.9	58.2
03:00 PM - 04:00 PM	59.8	75.2	58.4
04:00 PM - 05:00 PM	60.1	72.3	58.7
05:00 PM - 06:00 PM	62.9	85.7	59.4
06:00 PM - 07:00 PM	61.5	84.8	59.7
07:00 PM - 08:00 PM	60.5	73.8	59.4
08:00 PM - 09:00 PM	59.8	70.3	59.1
09:00 PM - 10:00 PM	61.1	71.9	60.1
10:00 PM - 11:00 PM	61.1	68.7	60.4
11:00 PM - 12:00 AM	61.9	72.6	60.7
12:00 AM - 01:00 AM	62.1	74.8	60.9
01:00 AM - 02:00 AM	61.6	64.5	60.9
02:00 AM - 03:00 AM	61.1	64.4	60.3
03:00 AM - 04:00 AM	61.0	65.4	60.3
04:00 AM - 05:00 AM	61.1	72.3	60.3
05:00 AM - 06:00 AM	62.6	81.6	60.3
06:00 AM - 07:00 AM	63.3	83.1	60.1
07:00 AM - 08:00 AM	61.5	81.8	59.5
08:00 AM - 09:00 AM	60.9	76.2	59.7

Leq Average 24 hrs. (dB(A)) 61.1
Lmax (dB(A)) 85.7
L90 (dB(A)) 59.5
Ldn (dB(A)) 68.1
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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Life Sciences

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S:\Reports\Air Noise.rpt (10.354M)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577035-1

Page 1 of 1

Sample Number 2314753-1
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศใต้ของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมกซ์เพลคเจอร์ จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 14 - Feb 15, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.5	76.4	45.8
11:00 AM - 12:00 PM	50.0	71.0	44.8
12:00 PM - 01:00 PM	51.5	74.8	45.1
01:00 PM - 02:00 PM	51.4	76.8	44.7
02:00 PM - 03:00 PM	55.0	79.9	44.9
03:00 PM - 04:00 PM	52.4	72.8	45.7
04:00 PM - 05:00 PM	60.9	83.5	47.6
05:00 PM - 06:00 PM	53.2	72.3	47.2
06:00 PM - 07:00 PM	54.8	87.2	46.9
07:00 PM - 08:00 PM	51.2	76.5	46.8
08:00 PM - 09:00 PM	48.0	58.0	46.9
09:00 PM - 10:00 PM	47.4	66.6	46.1
10:00 PM - 11:00 PM	50.7	72.4	45.5
11:00 PM - 12:00 AM	46.5	67.3	45.3
12:00 AM - 01:00 AM	45.8	60.1	44.9
01:00 AM - 02:00 AM	47.6	76.3	44.7
02:00 AM - 03:00 AM	50.3	77.2	44.9
03:00 AM - 04:00 AM	51.9	74.8	44.9
04:00 AM - 05:00 AM	47.0	63.6	45.4
05:00 AM - 06:00 AM	53.0	71.4	46.9
06:00 AM - 07:00 AM	54.9	77.4	50.2
07:00 AM - 08:00 AM	53.1	76.5	46.8
08:00 AM - 09:00 AM	51.9	76.2	45.9
09:00 AM - 10:00 AM	50.3	71.8	45.7

Leq Average 24 hrs. (dB(A)) 52.8
Lmax (dB(A)) 87.2
L90 (dB(A)) 45.7
Ldn (dB(A)) 57.7
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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S:\Reports\Air Noise.rpt (10.404M)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577036-1

Page 1 of 1

Sample Number 2314753-2
Parameter Noise (Leq 24 hrs.)
Location รันข้าวคั่วพันไร่ของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมกซ์แพคเจอร้ง จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 15 - Feb 16, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.1	84.9	45.1
11:00 AM - 12:00 PM	48.5	65.9	44.8
12:00 PM - 01:00 PM	54.5	79.2	45.1
01:00 PM - 02:00 PM	50.4	73.0	45.9
02:00 PM - 03:00 PM	51.5	71.7	45.9
03:00 PM - 04:00 PM	51.7	74.8	46.0
04:00 PM - 05:00 PM	52.9	86.4	46.4
05:00 PM - 06:00 PM	53.0	79.8	46.8
06:00 PM - 07:00 PM	56.0	80.2	47.0
07:00 PM - 08:00 PM	55.9	89.4	46.4
08:00 PM - 09:00 PM	50.4	70.8	47.1
09:00 PM - 10:00 PM	48.3	58.8	47.2
10:00 PM - 11:00 PM	47.3	59.1	46.4
11:00 PM - 12:00 AM	47.5	65.9	46.1
12:00 AM - 01:00 AM	46.5	58.0	45.8
01:00 AM - 02:00 AM	45.8	57.0	45.1
02:00 AM - 03:00 AM	47.0	72.0	44.9
03:00 AM - 04:00 AM	55.1	79.7	45.8
04:00 AM - 05:00 AM	49.2	68.4	45.6
05:00 AM - 06:00 AM	51.6	69.8	46.0
06:00 AM - 07:00 AM	56.9	76.7	49.6
07:00 AM - 08:00 AM	53.0	79.7	46.8
08:00 AM - 09:00 AM	60.3	75.1	46.0
09:00 AM - 10:00 AM	67.8	81.9	53.9

Leq Average 24 hrs. (dB(A)) 56.6
Lmax (dB(A)) 89.4
L90 (dB(A)) 46.0
Ldn (dB(A)) 59.7
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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S:\Reports_Air Noise.rpt (10:40AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577037-1

Page 1 of 1

Sample Number 2314753-3
Parameter Noise (Leq 24 hrs.)
Location รันข้าวคั่วพันไร่ของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมกซ์แพคเจอร้ง จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 16 - Feb 17, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.5	82.9	53.5
11:00 AM - 12:00 PM	53.8	65.2	50.8
12:00 PM - 01:00 PM	57.2	84.0	51.0
01:00 PM - 02:00 PM	52.5	70.6	50.4
02:00 PM - 03:00 PM	56.9	69.7	50.5
03:00 PM - 04:00 PM	59.3	87.5	51.3
04:00 PM - 05:00 PM	53.6	70.5	50.4
05:00 PM - 06:00 PM	59.4	80.3	52.4
06:00 PM - 07:00 PM	55.5	68.3	52.4
07:00 PM - 08:00 PM	56.7	73.4	52.6
08:00 PM - 09:00 PM	59.1	70.5	53.1
09:00 PM - 10:00 PM	58.9	78.6	53.4
10:00 PM - 11:00 PM	56.1	71.3	52.9
11:00 PM - 12:00 AM	57.5	65.3	53.6
12:00 AM - 01:00 AM	57.7	63.4	54.9
01:00 AM - 02:00 AM	58.9	63.7	55.7
02:00 AM - 03:00 AM	59.3	64.3	56.7
03:00 AM - 04:00 AM	57.4	63.9	53.4
04:00 AM - 05:00 AM	58.2	79.4	53.5
05:00 AM - 06:00 AM	56.9	71.1	53.8
06:00 AM - 07:00 AM	56.8	71.7	54.1
07:00 AM - 08:00 AM	56.9	75.8	53.5
08:00 AM - 09:00 AM	68.3	88.0	52.5
09:00 AM - 10:00 AM	69.2	88.4	50.4

Leq Average 24 hrs. (dB(A)) 60.6
Lmax (dB(A)) 88.4
L90 (dB(A)) 52.9
Ldn (dB(A)) 65.0
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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S:\Reports_Air Noise.rpt (10:40AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577038-1

Page 1 of 1

Sample Number 2314753-4
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศใต้ของพื้นที่บริษัท เอ็มทีพี เอชพีซีโอ แมกนูเฟคเจอร์ส จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 17 - Feb 18, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.0	69.8	50.7
11:00 AM - 12:00 PM	55.6	70.3	51.2
12:00 PM - 01:00 PM	52.6	79.0	49.7
01:00 PM - 02:00 PM	52.9	71.5	48.4
02:00 PM - 03:00 PM	52.2	71.0	46.8
03:00 PM - 04:00 PM	52.8	76.7	47.7
04:00 PM - 05:00 PM	54.3	79.6	49.8
05:00 PM - 06:00 PM	55.8	73.1	51.9
06:00 PM - 07:00 PM	54.6	70.2	52.6
07:00 PM - 08:00 PM	55.1	71.1	52.7
08:00 PM - 09:00 PM	54.5	64.6	52.0
09:00 PM - 10:00 PM	54.4	73.8	51.2
10:00 PM - 11:00 PM	52.7	56.7	51.7
11:00 PM - 12:00 AM	52.9	60.0	51.8
12:00 AM - 01:00 AM	52.5	61.4	51.6
01:00 AM - 02:00 AM	54.3	62.6	52.3
02:00 AM - 03:00 AM	54.3	70.8	52.5
03:00 AM - 04:00 AM	53.9	69.9	52.5
04:00 AM - 05:00 AM	56.6	80.0	51.9
05:00 AM - 06:00 AM	57.7	85.9	53.5
06:00 AM - 07:00 AM	57.3	77.4	53.1
07:00 AM - 08:00 AM	54.6	76.8	51.5
08:00 AM - 09:00 AM	56.0	78.6	50.6
09:00 AM - 10:00 AM	53.0	71.3	50.4

Leq Average 24 hrs. (dB(A)) 54.6
Lmax (dB(A)) 85.9
L90 (dB(A)) 51.6
Ldn (dB(A)) 61.4
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

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:40AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577039-1

Page 1 of 1

Sample Number 2314753-5
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศใต้ของพื้นที่บริษัท เอ็มทีพี เอชพีซีโอ แมกนูเฟคเจอร์ส จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 18 - Feb 19, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.1	83.0	49.6
11:00 AM - 12:00 PM	52.1	72.6	47.9
12:00 PM - 01:00 PM	51.4	81.8	46.0
01:00 PM - 02:00 PM	48.1	62.6	45.7
02:00 PM - 03:00 PM	55.5	78.4	46.3
03:00 PM - 04:00 PM	51.2	71.6	47.0
04:00 PM - 05:00 PM	55.7	78.3	47.4
05:00 PM - 06:00 PM	52.6	69.5	47.9
06:00 PM - 07:00 PM	49.3	70.7	46.7
07:00 PM - 08:00 PM	54.1	67.4	49.1
08:00 PM - 09:00 PM	53.5	70.2	50.9
09:00 PM - 10:00 PM	52.3	58.9	50.9
10:00 PM - 11:00 PM	53.6	78.6	51.4
11:00 PM - 12:00 AM	54.4	73.4	52.4
12:00 AM - 01:00 AM	54.0	60.2	52.8
01:00 AM - 02:00 AM	53.8	61.2	52.3
02:00 AM - 03:00 AM	54.3	68.5	52.2
03:00 AM - 04:00 AM	56.7	79.8	51.7
04:00 AM - 05:00 AM	53.4	66.2	51.8
05:00 AM - 06:00 AM	56.6	77.0	53.4
06:00 AM - 07:00 AM	56.0	71.8	52.8
07:00 AM - 08:00 AM	55.6	77.5	52.1
08:00 AM - 09:00 AM	54.3	79.6	51.1
09:00 AM - 10:00 AM	52.3	66.8	50.6

Leq Average 24 hrs. (dB(A)) 53.9
Lmax (dB(A)) 83.0
L90 (dB(A)) 50.9
Ldn (dB(A)) 61.1
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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S:\Reports_Air Noise.rpt (10:40AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577040-1

Page 1 of 1

Sample Number 2314753-6
Parameter Noise (Leq 24 hrs.)
Location รั้วด้านทิศใต้ของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมงพดเจริง จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 19 - Feb 20, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.5	67.4	50.3
11:00 AM - 12:00 PM	51.7	66.9	49.5
12:00 PM - 01:00 PM	50.6	75.8	45.7
01:00 PM - 02:00 PM	55.5	80.1	44.9
02:00 PM - 03:00 PM	50.6	76.7	45.7
03:00 PM - 04:00 PM	56.3	80.6	47.1
04:00 PM - 05:00 PM	52.5	72.8	48.0
05:00 PM - 06:00 PM	53.8	69.4	49.4
06:00 PM - 07:00 PM	50.5	69.7	48.6
07:00 PM - 08:00 PM	51.5	71.4	49.5
08:00 PM - 09:00 PM	53.2	69.6	50.7
09:00 PM - 10:00 PM	53.0	58.9	51.5
10:00 PM - 11:00 PM	53.6	69.3	52.3
11:00 PM - 12:00 AM	54.0	64.3	53.0
12:00 AM - 01:00 AM	52.8	59.0	51.2
01:00 AM - 02:00 AM	52.3	59.2	50.7
02:00 AM - 03:00 AM	51.8	57.1	50.3
03:00 AM - 04:00 AM	54.1	60.4	52.5
04:00 AM - 05:00 AM	55.5	63.3	53.5
05:00 AM - 06:00 AM	56.9	78.1	54.8
06:00 AM - 07:00 AM	59.1	85.1	52.0
07:00 AM - 08:00 AM	51.7	65.3	49.5
08:00 AM - 09:00 AM	58.1	80.2	50.1
09:00 AM - 10:00 AM	51.1	63.3	49.5

Leq Average 24 hrs. (dB(A)) 54.2
Lmax (dB(A)) 85.1
L90 (dB(A)) 50.1
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 และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน 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

Supt S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:41AM)



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2314753

Date Received : Feb 21, 2023

Date Reported : Feb 25, 2023

Report Number: 2577041-1

Page 1 of 1

Sample Number 2314753-7
Parameter Noise (Leq 24 hrs.)
Location รั้วด้านทิศใต้ของพื้นที่บริษัท เอ็มทีพี เอชพีทีโอ แมงพดเจริง จำกัด (GPS 47P 0727136, 1404550)
Measurement Date Feb 20 - Feb 21, 2023
Measurement by Sitpawit Suwannarat
Sound Level meter Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.8	61.8	46.0
11:00 AM - 12:00 PM	47.0	61.7	44.9
12:00 PM - 01:00 PM	47.9	66.5	45.6
01:00 PM - 02:00 PM	56.6	82.2	45.4
02:00 PM - 03:00 PM	48.1	64.0	45.4
03:00 PM - 04:00 PM	59.5	90.6	46.0
04:00 PM - 05:00 PM	53.9	73.9	47.4
05:00 PM - 06:00 PM	53.0	73.8	47.5
06:00 PM - 07:00 PM	49.4	63.1	47.8
07:00 PM - 08:00 PM	49.5	64.0	48.2
08:00 PM - 09:00 PM	54.4	88.5	48.5
09:00 PM - 10:00 PM	50.2	57.3	49.4
10:00 PM - 11:00 PM	50.6	57.0	49.7
11:00 PM - 12:00 AM	48.8	55.6	47.8
12:00 AM - 01:00 AM	49.5	56.0	47.7
01:00 AM - 02:00 AM	51.6	67.9	47.9
02:00 AM - 03:00 AM	50.7	65.8	49.0
03:00 AM - 04:00 AM	52.2	67.9	49.8
04:00 AM - 05:00 AM	53.0	65.8	50.7
05:00 AM - 06:00 AM	58.9	90.5	53.8
06:00 AM - 07:00 AM	58.2	80.2	53.0
07:00 AM - 08:00 AM	54.2	70.7	52.3
08:00 AM - 09:00 AM	53.5	68.7	50.8
09:00 AM - 10:00 AM	51.7	63.6	49.5

Leq Average 24 hrs. (dB(A)) 53.6
Lmax (dB(A)) 90.6
L90 (dB(A)) 47.9
Ldn (dB(A)) 60.5
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Supt S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:41AM)

ภาคผนวก ค-5

ผลตรวจวัดระดับเสียงแยกความถี่ (Octave Band)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 232063

Date Received : Feb 08, 2023

Date Reported : Feb 15, 2023

Report Number : 2569929-1

Page 1 of 1

Sample Number 232063-1
Parameter Octave Band
Location หนองปรือ
Measurement Date Feb 07, 2023
Measurement By Natthapon Jiengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:20 AM - 10:20 AM	73.0	15.5	33.4	44.9	62.5	60.3	65.3	67.4	66.3	65.0	58.3	45.4
10:20 AM - 11:20 AM	73.0	15.9	33.2	44.8	63.0	60.2	64.9	67.5	66.3	65.1	58.4	45.0
11:20 AM - 12:20 PM	72.9	15.4	33.1	45.0	62.4	60.2	65.0	67.4	66.3	65.0	58.2	44.9
12:20 PM - 01:20 PM	73.0	15.4	33.2	45.2	62.3	60.5	65.0	67.6	66.4	65.1	58.5	45.1
01:20 PM - 02:20 PM	74.4	16.1	33.4	45.3	63.1	60.8	66.0	68.9	68.3	66.8	60.3	46.2
02:20 PM - 03:20 PM	73.1	16.1	33.7	45.7	62.9	60.3	64.8	67.6	66.6	65.4	59.0	45.5
03:20 PM - 04:20 PM	72.9	15.0	33.1	45.8	62.0	60.4	65.2	67.4	66.3	64.8	58.2	45.0
04:20 PM - 05:20 PM	73.2	14.8	33.2	45.5	61.8	60.3	64.9	67.5	67.0	65.9	58.4	45.3
Average	73.2	15.5	33.3	45.3	62.5	60.4	65.2	67.7	66.7	65.4	58.7	45.3

Reference Method : ANSI Standard S1.6-1984

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (5.38PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 232063

Date Received : Feb 08, 2023

Date Reported : Feb 15, 2023

Report Number : 2569930-1

Page 1 of 1

Sample Number 232063-2
Parameter Octave Band
Location นานาดิน
Measurement Date Feb 07, 2023
Measurement By Natthapon Jiengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:30 AM - 10:30 AM	79.3	21.5	38.6	52.5	62.4	66.1	70.9	74.0	72.8	71.9	68.4	59.9
10:30 AM - 11:30 AM	79.3	21.4	38.5	53.0	63.0	65.4	70.9	74.0	72.9	71.9	68.4	59.9
11:30 AM - 12:30 PM	79.4	21.4	38.6	53.1	63.0	64.9	71.0	74.2	73.1	71.9	68.4	59.9
12:30 PM - 01:30 PM	79.4	21.4	38.6	52.5	62.2	65.1	71.0	74.1	73.0	71.9	68.4	59.9
01:30 PM - 02:30 PM	79.3	21.0	38.3	52.4	61.4	65.1	70.9	74.1	73.0	71.9	68.4	59.8
02:30 PM - 03:30 PM	79.2	21.0	38.2	52.1	61.5	64.5	70.8	73.9	72.8	71.9	68.4	59.8
03:30 PM - 04:30 PM	79.2	21.0	38.1	52.7	60.4	65.0	70.9	74.0	72.7	71.7	68.3	59.7
04:30 PM - 05:30 PM	79.2	20.5	38.2	53.5	63.8	64.7	70.8	74.0	72.5	71.6	68.2	59.7
Average	79.3	21.2	38.4	52.7	62.3	65.1	70.9	74.0	72.9	71.8	68.4	59.8

Reference Method : ANSI Standard S1.6-1984

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (5.38PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 232072

Date Received : Feb 08, 2023

Date Reported : Feb 15, 2023

Report Number : 2569971-1

Page 1 of 1

Sample Number 232072-1
Parameter Octave Band
Location หน่วยทำปฏิกิริยาของสายการผลิตที่ 2
Measurement Date Feb 07, 2023
Measurement By Natthapon Jhengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:10 AM - 10:10 AM	78.3	21.4	43.3	53.1	60.9	68.7	73.5	73.5	69.3	67.8	56.6	47.6
10:10 AM - 11:10 AM	77.9	19.8	40.9	51.8	59.0	66.9	72.6	73.8	70.1	65.3	57.5	48.3
11:10 AM - 12:10 PM	78.5	22.1	44.5	53.9	62.3	69.5	74.3	73.2	68.4	67.1	54.7	45.7
12:10 PM - 01:10 PM	77.9	20.1	36.7	49.8	61.4	65.2	66.1	73.9	72.0	69.7	64.1	53.8
01:10 PM - 02:10 PM	77.8	20.0	35.9	49.0	61.9	66.3	66.6	73.2	72.0	70.2	63.9	53.7
02:10 PM - 03:10 PM	78.2	20.4	36.1	49.1	61.9	66.8	66.8	74.0	72.2	70.2	64.0	53.9
03:10 PM - 04:10 PM	78.0	19.5	37.0	50.3	61.9	66.5	66.5	72.9	72.8	70.4	64.7	54.1
04:10 PM - 05:10 PM	78.2	19.9	37.3	50.9	62.1	66.4	66.9	73.4	72.9	70.5	64.5	54.0
Average	78.1	20.5	40.3	51.3	61.5	67.2	70.5	73.5	71.5	69.2	62.6	52.4

Reference Method : ANSI Standard S1.6-1984

Technical Management

Saranya C.

Saranya Chalermtamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (5:51PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 232072

Date Received : Feb 08, 2023

Date Reported : Feb 15, 2023

Report Number : 2569972-1

Page 1 of 1

Sample Number 232072-2
Parameter Octave Band
Location หน่วยผลิตของสายการผลิตที่ 2
Measurement Date Feb 07, 2023
Measurement By Natthapon Jhengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:43 AM - 10:43 AM	77.2	22.8	41.0	50.4	62.7	64.9	67.7	70.8	70.9	70.5	67.0	56.6
10:43 AM - 11:43 AM	77.1	23.2	40.9	50.2	62.3	64.9	67.6	70.8	70.8	70.5	67.0	56.6
11:43 AM - 12:43 PM	77.1	23.3	40.9	50.4	62.2	64.9	67.6	70.7	70.8	70.5	67.0	56.6
12:43 PM - 01:43 PM	77.0	23.2	40.7	50.5	61.8	65.6	67.5	70.7	70.7	70.4	67.0	56.5
01:43 PM - 02:43 PM	77.1	23.5	40.6	50.7	61.8	64.7	67.5	70.8	70.8	70.5	67.0	56.5
02:43 PM - 03:43 PM	77.0	23.4	40.7	50.9	61.7	64.6	67.5	70.7	70.8	70.4	66.9	56.5
03:43 PM - 04:43 PM	77.1	22.9	41.1	51.3	61.8	64.7	67.7	70.8	70.8	70.4	66.9	56.4
04:43 PM - 05:43 PM	77.2	23.0	41.6	51.7	62.4	65.0	67.8	71.0	71.0	70.5	66.9	56.6
Average	77.1	23.2	40.9	50.8	62.1	64.9	67.6	70.8	70.8	70.5	67.0	56.5

Reference Method : ANSI Standard S1.6-1984

Technical Management

Saranya C.

Saranya Chalermtamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (5:51PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159018
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2348285
Date Received : May 10, 2023
Date Reported : May 18, 2023
Report Number : 2655547-1

Page 1 of 1

Sample Number : 2348285-1
Parameter : Octave Band
Location : พหลโยธิน
Measurement Date : May 09, 2023
Measurement By : Norranon Tathongkham

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:51 AM - 10:51 AM	71.3	18.5	35.4	46.1	57.4	61.1	66.1	66.0	63.6	60.3	52.8	40.8
10:51 AM - 11:51 AM	71.1	20.4	35.3	46.0	57.2	61.2	66.1	66.1	63.2	59.1	51.9	39.8
11:51 AM - 12:51 PM	71.2	20.0	35.1	46.2	56.9	61.4	66.0	66.5	63.3	58.5	51.4	40.4
12:51 PM - 01:51 PM	70.8	21.3	35.5	46.1	56.8	61.1	65.8	65.7	62.7	58.5	51.5	40.5
01:51 PM - 02:51 PM	70.9	21.1	35.7	46.2	57.4	61.0	65.8	65.6	63.1	58.6	51.5	40.6
02:51 PM - 03:51 PM	71.5	17.5	35.0	46.3	57.4	61.6	66.0	66.8	64.2	58.6	51.3	40.3
03:51 PM - 04:51 PM	71.0	21.4	35.7	46.4	57.7	60.9	65.9	65.7	63.6	58.2	51.1	40.5
04:51 PM - 05:51 PM	70.8	21.2	35.5	46.2	57.5	60.7	65.7	65.5	63.4	58.0	50.9	40.3
Average	71.1	20.4	35.4	46.2	57.3	61.1	65.9	66.0	63.4	58.8	51.6	40.4

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rak Yong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (4:30PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159018
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2348285
Date Received : May 10, 2023
Date Reported : May 18, 2023
Report Number : 2655548-1

Page 1 of 1

Sample Number : 2348285-2
Parameter : Octave Band
Location : พหลโยธิน
Measurement Date : May 09, 2023
Measurement By : Norranon Tathongkham

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:34 AM - 10:34 AM	80.3	22.0	38.9	51.8	62.7	69.6	75.9	75.1	72.3	67.9	62.2	52.9
10:34 AM - 11:34 AM	80.5	22.5	38.1	51.6	62.5	70.0	75.9	75.4	72.8	67.8	60.9	50.9
11:34 AM - 12:34 PM	79.8	22.4	37.6	51.6	62.9	69.8	75.5	74.7	71.8	66.0	58.6	47.7
12:34 PM - 01:34 PM	80.2	22.5	37.8	51.7	63.7	70.5	75.7	75.0	72.2	66.6	59.3	48.7
01:34 PM - 02:34 PM	80.2	22.2	38.0	51.3	62.0	69.0	75.6	74.9	72.7	68.6	62.4	52.8
02:34 PM - 03:34 PM	80.8	22.0	38.2	51.8	63.3	68.9	75.7	75.7	74.0	69.7	62.4	52.1
03:34 PM - 04:34 PM	79.8	22.1	38.0	51.6	62.9	68.8	75.4	74.8	71.8	66.5	60.5	50.9
04:34 PM - 05:34 PM	79.7	21.7	37.5	50.8	61.5	68.5	75.1	74.4	72.2	68.1	61.9	52.3
Average	80.2	22.2	38.0	51.5	62.7	69.4	75.6	75.0	72.5	67.8	61.2	51.4

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rak Yong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (4:31PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2348317

Date Received : May 10, 2023

Date Reported : May 18, 2023

Report Number : 2655580-1

Page 1 of 1

Sample Number 2348317-1
Parameter Octave Band
Location หน่วยทำปฏิกิริยาของสารการผลิตที่ 2
Measurement Date May 09, 2023
Measurement By Norranon Tathongkham

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:56 AM - 10:56 AM	82.3	16.0	30.1	43.9	55.1	66.7	74.3	76.4	75.7	76.9	69.6	53.0
10:56 AM - 11:56 AM	82.4	17.8	30.5	44.0	56.0	67.1	74.6	76.6	75.8	76.9	69.6	53.1
11:56 AM - 12:56 PM	81.7	19.2	30.4	43.6	56.1	66.6	73.3	75.4	74.9	76.7	69.5	53.1
12:56 PM - 01:56 PM	80.4	19.6	30.8	42.7	53.4	63.0	68.6	72.5	74.3	76.6	70.1	53.7
01:56 PM - 02:56 PM	79.6	18.7	30.9	43.7	53.9	63.6	69.7	73.3	74.2	74.1	66.9	51.9
02:56 PM - 03:56 PM	76.2	14.4	30.0	44.1	55.7	62.9	68.3	69.5	70.4	70.8	59.4	48.0
03:56 PM - 04:56 PM	75.7	15.0	29.7	45.2	54.5	62.7	67.8	68.8	69.6	70.6	59.6	47.4
04:56 PM - 05:56 PM	76.1	14.3	29.9	44.0	55.6	62.8	68.2	69.4	70.3	70.7	59.3	47.9
Average	80.1	17.4	30.3	43.9	55.1	64.8	71.5	73.7	73.8	75.0	67.5	51.7

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band.rpt (4-41PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2348317

Date Received : May 10, 2023

Date Reported : May 18, 2023

Report Number : 2655581-1

Page 1 of 1

Sample Number 2348317-2
Parameter Octave Band
Location หน่วยผลิตเป็นของสารการผลิตที่ 2
Measurement Date May 09, 2023
Measurement By Norranon Tathongkham

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:41 AM - 10:41 AM	76.9	23.9	42.3	51.4	62.4	66.5	69.5	69.2	68.9	70.0	68.3	58.9
10:41 AM - 11:41 AM	76.9	22.4	40.4	49.8	62.1	66.5	69.5	69.6	68.9	69.8	68.1	58.8
11:41 AM - 12:41 PM	76.5	22.6	39.9	49.8	62.4	66.5	69.3	68.8	68.2	69.4	67.9	58.7
12:41 PM - 01:41 PM	76.7	23.0	40.0	50.0	62.5	66.5	69.4	69.1	68.8	69.7	68.0	58.8
01:41 PM - 02:41 PM	77.8	23.2	40.1	50.1	62.3	66.4	69.8	71.1	70.5	71.0	68.4	59.0
02:41 PM - 03:41 PM	76.6	23.0	40.3	50.2	62.1	66.1	69.3	69.0	68.7	69.7	68.0	58.8
03:41 PM - 04:41 PM	76.4	22.7	40.2	50.1	61.9	66.1	69.2	68.6	68.2	69.4	68.0	58.9
04:41 PM - 05:41 PM	76.4	22.8	40.1	50.0	61.9	65.9	69.1	68.8	68.5	69.5	67.8	58.6
Average	76.8	23.0	40.5	50.2	62.2	66.3	69.4	69.3	68.9	69.8	68.1	58.8

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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