

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม
โครงการโรงงานผลิตสารโพลีเอสเตอร์ (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: 21149452

Date Received : Jan 05, 2022

Date Reported : Jan 18, 2022

Report Number : 2184334-1C15

Page 1 of 3

| | |
|-------------------------|--|
| Sample Number | 21149452-1 |
| Sampled Date | Jan 05, 2022 |
| Sample Description | Air Quality |
| Location | จุดตรวจคุณภาพอากาศ |
| Date Analysis Commenced | Jan 06, 2022 |
| Condition of Sample | Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated |
| Barometric Pressure | 756 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 | 05/01/22 - 06/01/22 | ug/m3 | 1.2 | 14 | Not Detected | No Standard | Based on NIOSH, 1612 | - | Bangkok |

Guideline :

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, Normal activity, Nearby school and temple

Sampled By : Jakkarin Manwicha

Remark :

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

Approved by

Sararat Mongkonjirawut
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 : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 21149452

Date Received : Jan 05, 2022

Date Reported : Jan 18, 2022

Report Number : 2184334-1C15

Page 2 of 3

| | |
|-------------------------|--|
| Sample Number | 21149452-2 |
| Sampled Date | Jan 05, 2022 |
| Sample Description | Air Quality |
| Location | จุดตรวจคุณภาพอากาศ |
| Date Analysis Commenced | Jan 06, 2022 |
| Condition of Sample | Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated |
| Barometric Pressure | 756 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 | 05/01/22 - 06/01/22 | ug/m3 | 1.2 | 14 | Not Detected | No Standard | Based on NIOSH, 1612 | - | Bangkok |

Guideline :

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, Normal activity, Nearby school, temple and community

Sampled By : Jakkarin Manwicha

Remark :

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Approved by

Sararat Mongkonjirawut
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 : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 21149452

Date Received : Jan 05, 2022

Date Reported : Jan 18, 2022

Report Number : 2184334-1C15

Page 3 of 3

Sample Number 21149452-3
Sampled Date Jan 05, 2022
Sample Description Air Quality
Location อากาศภายในโรงงาน
Date Analysis Commenced Jan 06, 2022
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 756 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 | 05/01/22 - 06/01/22 | ug/m3 | 1.2 | 14 | Not Detected | No Standard | Based on NIOSH, 1612 | - | Bangkok |

Guideline :

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, Normal activity, Nearby school, temple and community

Sampled By : Jakkarin Manwicha

Remark :

- LOD : Limit of Detection
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Approved by

Sararat Mongkonjirawut
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 : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 21149850

Date Received : Feb 02, 2022

Date Reported : Feb 17, 2022

Report Number : 2185302-1C15 Rev. No.1

Page 1 of 3

Sample Number 21149850-1
Sampled Date Feb 01, 2022
Sample Description Air Quality
Location อากาศภายในโรงงาน
Date Analysis Commenced Feb 03, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 758 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 | 01/02/22 - 02/02/22 | 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, Normal activity, Nearby temple
This Analysis test report is reissued to supersede report No. 2185302-1, Date Reported : Feb 14, 2022 due to revise sample information.

Sampled By : Kantaphon Maneesampan

Remark :

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

Approved by

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 : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 21149850

Date Received : Feb 02, 2022

Date Reported : Feb 17, 2022

Report Number : 2185302-1C15 Rev. No.1

Page 2 of 3

Sample Number 21149850-2
Sampled Date Feb 01, 2022
Sample Description Air Quality
Location ถนนพหลโยธิน
Date Analysis Commenced Feb 03, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 758 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 | 01/02/22 - 02/02/22 | 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, Normal activity, Nearby school, temple and community

This Analysis test report is reissued to supersede report No. 2185302-1, Date Reported : Feb 14, 2022 due to revise sample information.

Sampled By : Kantaphon Maneesampan

Remark :

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Approved by

Saranya C.

Saranya Chalerthamrong
Scientist (4)

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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: 21149850

Date Received : Feb 02, 2022

Date Reported : Feb 17, 2022

Report Number : 2185302-1C15 Rev. No.1

Page 3 of 3

Sample Number 21149850-3
Sampled Date Feb 01, 2022
Sample Description Air Quality
Location ถนนพหลโยธิน
Date Analysis Commenced Feb 03, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 758 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 | 01/02/22 - 02/02/22 | 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, Normal activity, Nearby temple and community

This Analysis test report is reissued to supersede report No. 2185302-1, Date Reported : Feb 14, 2022 due to revise sample information.

Sampled By : Kantaphon Maneesampan

Remark :

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Approved by

Saranya C.

Saranya Chalerthamrong
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 : 4505352907
Project Name : Polyol
Project Location :

Lot ID: 2220431
Date Received : Mar 02, 2022
Date Reported : Mar 10, 2022
Report Number : 2233751-1C15

Page 1 of 3

Sample Number 2220431-1
Sampled Date Mar 01, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0726292, 1407282)
Date Analysis Commenced Mar 03, 2022
Condition of Sample Drawn into one 6-L Canister, two sorbent tubes and one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 29.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------------|-----------------|----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Propylene Oxide | 01/03/22 - 02/03/22 | 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. Normal activity, Nearby school and temple.

Sampled By : Satcha Phetsawaeng

Remark :

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

Approved by

Sararat Mongkonjirawut
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 : 4505352907
Project Name : Polyol
Project Location :

Lot ID: 2220431
Date Received : Mar 02, 2022
Date Reported : Mar 10, 2022
Report Number : 2233751-1C15

Page 2 of 3

Sample Number 2220431-2
Sampled Date Mar 01, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Mar 03, 2022
Condition of Sample Drawn into one 6-L Canister, two sorbent tubes and one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 29.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------------|-----------------|----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Propylene Oxide | 01/03/22 - 02/03/22 | 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 : - Map Cha Lood Community station has moderate traffic. Normal activity, Nearby school and temple.

Sampled By : Satcha Phetsawaeng

Remark :

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

Lot ID: 2220431
Date Received : Mar 02, 2022
Date Reported : Mar 10, 2022
Report Number : 2233751-1C15

Page 3 of 3

Sample Number 2220431-3
Sampled Date Mar 01, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Mar 03, 2022
Condition of Sample Drawn into one 6-L Canister, two sorbent tubes and one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 29.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------------|-----------------|----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Propylene Oxide | 01/03/22 - 02/03/22 | 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. Normal activity, Nearby school and temple
Sampled By : Satcha Phetsawaeng
Remark :
- LOD : Limit of Detection
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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Polyol
Project Location :

Lot ID: 2235298
Date Received : Apr 05, 2022
Date Reported : Apr 21, 2022
Report Number : 2263545-1C15

Page 1 of 3

Sample Number 2235298-1
Sampled Date Apr 04, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0726292, 1407282)
Date Analysis Commenced Apr 06, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, 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 | 04/04/22 - 05/04/22 | 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., Normal activity, Nearby school and temple
- Map Cha Lood Community station has moderate traffic., Normal activity, Nearby school and temple
- Pa Yoon Community station has moderate traffic., Normal activity, Nearby school and temple
Sampled By : Satcha Phetsawaeng
Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Sararat Mongkonjirawut
Scientist (4)

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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: 2235298

Date Received : Apr 05, 2022

Date Reported : Apr 21, 2022

Report Number : 2263545-1C15

Page 2 of 3

Sample Number 2235298-2
Sampled Date Apr 04, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Apr 06, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, 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 | 04/04/22 - 05/04/22 | 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., Normal activity, Nearby school and temple
- Map Cha Lood Community station has moderate traffic., Normal activity, Nearby school and temple
- Pa Yoon Community station has moderate traffic., Normal activity, Nearby school and temple

Sampled By : Satcha Phetsawaeng

Remark :

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

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Thailand 21130

P/O : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 2235298

Date Received : Apr 05, 2022

Date Reported : Apr 21, 2022

Report Number : 2263545-1C15

Page 3 of 3

Sample Number 2235298-3
Sampled Date Apr 04, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Apr 06, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, 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 | 04/04/22 - 05/04/22 | 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., Normal activity, Nearby school and temple
- Map Cha Lood Community station has moderate traffic., Normal activity, Nearby school and temple
- Pa Yoon Community station has moderate traffic., Normal activity, Nearby school and temple

Sampled By : Satcha Phetsawaeng

Remark :

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

Approved by

Sararat Mongkonjirawut
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 : 4505352907

Project Name : Polyol

Project Location :

Lot ID: 2240275

Date Received : May 04, 2022

Date Reported : May 12, 2022

Report Number : 2274433-1C15

Page 1 of 3

Sample Number 2240275-1
Sampled Date May 03, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0726292, 1407282)
Date Analysis Commenced May 05, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 29.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------------|-----------------|----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Propylene Oxide | 03/05/22 - 04/05/22 | 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, Normal activity, Light rain, Nearby school temple and Community

Sampled By : Satcha Phetsawaeng

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: 2240275

Date Received : May 04, 2022

Date Reported : May 12, 2022

Report Number : 2274433-1C15

Page 2 of 3

Sample Number 2240275-2
Sampled Date May 03, 2022
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced May 05, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 29.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------------|-----------------|----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Propylene Oxide | 03/05/22 - 04/05/22 | 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, Normal activity, Light rain, Nearby school temple and Community

Sampled By : Satcha Phetsawaeng

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: 2240275

Date Received : May 04, 2022

Date Reported : May 12, 2022

Report Number : 2274433-1C15

Page 3 of 3

Sample Number 2240275-3
Sampled Date May 03, 2022
Sample Description Air Quality
Location ชุมชนพหลโยธิน (GPS 47P 0724377, 1402458)
Date Analysis Commenced May 05, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 29.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------------|-----------------|----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Propylene Oxide | 03/05/22 - 04/05/22 | 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, Normal activity, Light rain, Nearby school temple and Community

Sampled By : Satcha Phetsawaeng

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: 2265543

Date Received : Jun 02, 2022

Date Reported : Jun 10, 2022

Report Number : 2326634-1C15

Page 1 of 3

Sample Number 2265543-1
Sampled Date Jun 01, 2022
Sample Description Air Quality
Location ชุมชนประทุมมาศ (GPS 47P 0726292, 1407282)
Date Analysis Commenced Jun 03, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 754 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 | 01/06/22 - 02/06/22 | 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, Normal activity, Nearby school temple and Community

Sampled By : Ronnachai Moungma

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: 2265543

Date Received : Jun 02, 2022

Date Reported : Jun 10, 2022

Report Number : 2326634-1C15

Page 2 of 3

Sample Number 2265543-2
Sampled Date Jun 01, 2022
Sample Description Air Quality
Location ชุมชนบางนา (GPS 47P 0730826, 1407366)
Date Analysis Commenced Jun 03, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 754 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 | 01/06/22 - 02/06/22 | 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, Normal activity, Nearby school temple and Community

Sampled By : Ronnachai Moungma

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: 2265543

Date Received : Jun 02, 2022

Date Reported : Jun 10, 2022

Report Number : 2326634-1C15

Page 3 of 3

Sample Number 2265543-3
Sampled Date Jun 01, 2022
Sample Description Air Quality
Location ชุมชนบางนา (GPS 47P 0724377, 1402458)
Date Analysis Commenced Jun 03, 2022
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 754 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 | 01/06/22 - 02/06/22 | 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, Normal activity, Nearby school temple and Community

Sampled By : Ronnachai Moungma

Remark :

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

Approved by

Sararat 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 : 4512888328

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 21149881

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2185357-1

Page 1 of 2

Sample Number 21149881-1
Sampled Date Feb 08, 2022
Sample Description Air Quality
Location หน่วยฟาร์มสุรียา
Date Analysis Commenced Feb 09, 2022
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 758 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 | 09:10 AM - 11:10 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 : Sathapron Thakarn

Remark :

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

Approved by

Saranya C.

Saranya Chalerthamrong
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 : 4512888328

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 21149881

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2185357-1

Page 2 of 2

Sample Number 21149881-2
Sampled Date Feb 08, 2022
Sample Description Air Quality
Location หน่วยฟาร์มสุรียา
Personal Sampling ฤดูร้อน สด
Date Analysis Commenced Feb 09, 2022
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 758 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 | 09:10 AM - 11:10 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 : Sathapron Thakarn

Remark :

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

Approved by

Saranya C.

Saranya Chalerthamrong
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 : 4512888340
Project Name : Environmental Quality Monitoring
Project Location : Polyol

Lot ID: 21149888
Date Received : Feb 08, 2022
Date Reported : Feb 17, 2022
Report Number : 2185363-1

Page 1 of 2

Sample Number 21149888-1
Sampled Date Feb 08, 2022
Sample Description Air Quality
Location หน่วยปฏิบัติการของสาธารณสุขที่ 2
Date Analysis Commenced Feb 09, 2022
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 758 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 : Sathaporn Thakrar

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

Approved by

Saranya C.

Saranya Chalerthamrong
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 : 4512888340
Project Name : Environmental Quality Monitoring
Project Location : Polyol

Lot ID: 21149888
Date Received : Feb 08, 2022
Date Reported : Feb 17, 2022
Report Number : 2185363-1

Page 2 of 2

Sample Number 21149888-2
Sampled Date Feb 08, 2022
Sample Description Air Quality
Location พนักงานที่ปฏิบัติงานในกระบวนการผลิต
Personal Sampling คนกวดเคอร์ ตรีศ
Date Analysis Commenced Feb 09, 2022
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 758 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 : Sathaporn Thakrar

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

Approved by

Saranya C.

Saranya Chalerthamrong
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 : 451288328
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2240312
Date Received : May 12, 2022
Date Reported : May 21, 2022
Report Number : 2274483-1

Page 1 of 2

Sample Number 2240312-1
Sampled Date May 12, 2022
Sample Description Air Quality
Location หน่วยบำบัดน้ำเสีย
Date Analysis Commenced May 13, 2022
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 | 09:45 AM - 11:45 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 : Sathaporn Thakarn

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 : 451288328
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2240312
Date Received : May 12, 2022
Date Reported : May 21, 2022
Report Number : 2274483-1

Page 2 of 2

Sample Number 2240312-2
Sampled Date May 12, 2022
Sample Description Air Quality
Location หน่วยบำบัดน้ำเสีย
Personal Sampling คุณเกียรติศักดิ์ ใจฉาย
Date Analysis Commenced May 13, 2022
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 | 09:45 AM - 11:45 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 : Sathaporn Thakarn

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 : 451288340

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2242557

Date Received : May 12, 2022

Date Reported : May 21, 2022

Report Number : 2279687-1

Page 1 of 2

Sample Number 2242557-1
Sampled Date May 12, 2022
Sample Description Air Quality
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Date Analysis Commenced May 13, 2022
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 | 09:40 AM - 11:40 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 : Sathaporn Thakarn

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 : 451288340

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2242557

Date Received : May 12, 2022

Date Reported : May 21, 2022

Report Number : 2279687-1

Page 2 of 2

Sample Number 2242557-2
Sampled Date May 12, 2022
Sample Description Air Quality
Location พืชผักที่ปลูกในโรงเรือนการผลิด
Personal Sampling คุณภาพพืช อาริสมิต
Date Analysis Commenced May 13, 2022
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 | 09:40 AM - 11:40 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 : Sathaporn Thakarn

Remark :

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

Approved by

Sararat Mongkonjirawut
Supervisor

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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: 21147443

Date Received : Jan 20, 2022

Date Reported : Jan 27, 2022

Report Number : 2179675-1

Page 1 of 1

| | |
|-------------------------|---|
| Sample Number | 21147443-1 |
| Sampled Date | Jan 20, 2022 11:40 AM |
| Sample Description | Wastewater |
| Location | WW from Process |
| Date Analysis Commenced | Jan 21, 2022 |
| 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 | 1257 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 13372 | APHA (2017), 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | 95 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C | | - | - | 6.0 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 28 | APHA (2017), 2540 C | Rayong |

Sampled By : 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. Banphit

Narumon Banchongkit
Supervisor
โทรศัพท์มือถือ ๖-323-๙-9445

Approved by

D. Chongchon

Dej Changchon
Senior Manager
โทรศัพท์มือถือ ๖-323-๙-9442

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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 :

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 222076

Date Received : Feb 03, 2022

Date Reported : Feb 11, 2022

Report Number : 2196879-1

Page 1 of 1

| | |
|-------------------------|---|
| Sample Number | 222076-1 |
| Sampled Date | Feb 03, 2022 11:10 AM |
| Sample Description | Wastewater |
| Location | WW from Process |
| Date Analysis Commenced | Feb 04, 2022 |
| 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 | 2853 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 16769 | APHA (2017), 5220 D | Rayong |
| Oil & Grease * | mg/L | - | 3 | 205 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C | | - | - | 5.2 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 48 | APHA (2017), 2540 C | Rayong |

Sampled By : Chainusorn Lertnathakunchai

Remark :

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

N. Banphit

Narumon Banchongkit
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โทรศัพท์มือถือ ๖-323-๙-9445

Approved by

D. Chongchon

Dej Changchon
Manager
โทรศัพท์มือถือ ๖-225-๙-5283

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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 :
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042
Lot ID: 222076
Date Received : Feb 03, 2022
Date Reported : Feb 10, 2022
Report Number : 2196879-1

Page 1 of 1

| Sample Number | 222076-1 | | | | | | |
|--|---|-----|-----------|--------|---------------------------|----------------------------------|------------------|
| Sampled Date | Feb 03, 2022 11:10 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | WW from Process | | | | | | |
| Date Analysis Commenced | Feb 04, 2022 | | | | | | |
| 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 | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2 | 2853 | ≤20 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 16769 | ≤120 | APHA (2017), 5220 D | Rayong |
| Oil & Grease * | mg/L | - | 3 | 205 | ≤5 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C | | - | - | 5.2 | 5.5-9.0 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 48 | ≤3000 | APHA (2017), 2540 C | 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 : Chainusorn Lertnathakunchai

Remark :
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Technical Management

N. Banthit

Narumon Banchongkit
Supervisor
หมายเลขโทรศัพท์ 323-9-9445

Approved by

D. Chanchon

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 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 : 4701167856
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042
Lot ID: 2218582
Date Received : Mar 09, 2022
Date Reported : Mar 16, 2022
Report Number : 2229174-1

Page 1 of 1

| Sample Number | 2218582-1 | | | | | |
|--|---|-----|-----------|--------|----------------------------------|------------------|
| Sampled Date | Mar 09, 2022 10:40 AM | | | | | |
| Sample Description | Wastewater | | | | | |
| Location | WW from Process | | | | | |
| Date Analysis Commenced | Mar 10, 2022 | | | | | |
| 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 | 1260 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 8967 | APHA (2017), 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | 86 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C * | | - | - | 3.9 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 21 | APHA (2017), 2540 C | Rayong |

Sampled By : Wanlop Hunchainaow

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. Banthit

Narumon Banchongkit
Supervisor
หมายเลขโทรศัพท์ 323-9-9445

Approved by

D. Chanchon

Dej Changchon
Manager
หมายเลขโทรศัพท์ 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 : 4701167856

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 2225836

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2243484-1

Page 1 of 1

Sample Number 2225836-1
Sampled Date Apr 05, 2022 11:20 AM
Sample Description Wastewater
Location WW from Process
Date Analysis Commenced Apr 06, 2022
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 | 6060 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 11037 | APHA (2017), 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | 95 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C | | - | - | 4.9 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 26 | APHA (2017), 2540 C | Rayong |

Sampled By : Chainusorn Lertnanthakunchai

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. Banthit

Narumon Banchongkit
Supervisor

หมายเลขโทรศัพท์ 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Manager

หมายเลขโทรศัพท์ 3-225-9-5283

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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 : 4701167856

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 2239436

Date Received : May 06, 2022

Date Reported : May 12, 2022

Report Number : 2273022-1

Page 1 of 1

Sample Number 2239436-1
Sampled Date May 06, 2022 10:30 AM
Sample Description Wastewater
Location WW from Process
Date Analysis Commenced May 07, 2022
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 | 1752 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 15004 | APHA (2017), 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | 131 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C | | - | - | 6.0 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 541 | APHA (2017), 2540 C | Rayong |

Sampled By : Pathompong Kornasawat

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. Banthit

Narumon Banchongkit
Supervisor

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Approved by

D. Changchon

Dej Changchon
Senior Manager

หมายเลขโทรศัพท์ 3-323-9-9442

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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 : 4701167856
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant

Lot ID: 2258005
Date Received : Jun 08, 2022
Date Reported : Jun 15, 2022
Report Number : 2313298-1

Page 1 of 1

Sample Number 2258005-1
Sampled Date Jun 08, 2022 10:45 AM
Sample Description Wastewater
Location WW from Process
Date Analysis Commenced Jun 08, 2022
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-----|-----------|--------|----------------------------------|------------------|
| Water Testing | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2 | 3939 | APHA (2017), 5210 B | Rayong |
| COD | mg/L | 1.5 | 5 | 10368 | APHA (2017), 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | 128 | Based on APHA (2017), 5520 B | Rayong |
| pH at 25 degree C | | - | - | 4.1 | Based on APHA (2017), 4500-H (B) | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 22 | APHA (2017), 2540 C | Rayong |

Sampled By : Wanlop Hunchainaow

Remark :
- LOD : Limit of Detection
- "c" : 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. Banphat

Narumon Banchongkit
Supervisor
โทรศัพท์ 0-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
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ภาคผนวก ค-4

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 : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248933-1C18

Page 1 of 1

Sample Number 2220467-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Feb 21 - Feb 22, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 60.1 | 88.0 | 58.6 |
| 01:00 PM - 02:00 PM | 60.5 | 85.1 | 58.4 |
| 02:00 PM - 03:00 PM | 61.3 | 72.4 | 59.0 |
| 03:00 PM - 04:00 PM | 61.8 | 75.4 | 58.5 |
| 04:00 PM - 05:00 PM | 60.8 | 78.0 | 58.5 |
| 05:00 PM - 06:00 PM | 60.8 | 73.6 | 59.2 |
| 06:00 PM - 07:00 PM | 60.3 | 78.2 | 59.7 |
| 07:00 PM - 08:00 PM | 60.3 | 74.2 | 59.4 |
| 08:00 PM - 09:00 PM | 60.2 | 77.6 | 59.4 |
| 09:00 PM - 10:00 PM | 59.8 | 73.9 | 59.2 |
| 10:00 PM - 11:00 PM | 59.9 | 79.3 | 59.3 |
| 11:00 PM - 12:00 AM | 60.0 | 70.1 | 59.4 |
| 12:00 AM - 01:00 AM | 59.7 | 68.6 | 59.0 |
| 01:00 AM - 02:00 AM | 59.6 | 67.5 | 59.2 |
| 02:00 AM - 03:00 AM | 60.0 | 66.0 | 59.2 |
| 03:00 AM - 04:00 AM | 60.7 | 63.9 | 58.8 |
| 04:00 AM - 05:00 AM | 63.0 | 65.1 | 58.8 |
| 05:00 AM - 06:00 AM | 62.3 | 78.5 | 59.0 |
| 06:00 AM - 07:00 AM | 60.6 | 72.3 | 58.9 |
| 07:00 AM - 08:00 AM | 60.8 | 78.1 | 59.7 |
| 08:00 AM - 09:00 AM | 60.3 | 85.1 | 59.3 |
| 09:00 AM - 10:00 AM | 59.6 | 74.9 | 59.1 |
| 10:00 AM - 11:00 AM | 59.3 | 82.3 | 59.1 |
| 11:00 AM - 12:00 PM | 58.4 | 79.4 | 57.8 |

Leq Average 24 hrs. (dB(A)) 60.5
Lmax (dB(A)) 88.0
L90 (dB(A)) 59.1
Ldn (dB(A)) 67.2
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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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8525-209/ EMAIL



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 : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248934-1C18

Page 1 of 1

Sample Number 2220467-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Feb 22 - Feb 23, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 58.0 | 77.3 | 57.2 |
| 01:00 PM - 02:00 PM | 59.7 | 81.9 | 56.2 |
| 02:00 PM - 03:00 PM | 60.3 | 75.1 | 55.9 |
| 03:00 PM - 04:00 PM | 60.1 | 80.1 | 56.3 |
| 04:00 PM - 05:00 PM | 60.0 | 79.8 | 57.4 |
| 05:00 PM - 06:00 PM | 59.0 | 77.3 | 57.8 |
| 06:00 PM - 07:00 PM | 58.6 | 79.3 | 57.5 |
| 07:00 PM - 08:00 PM | 59.5 | 87.3 | 57.1 |
| 08:00 PM - 09:00 PM | 59.5 | 69.9 | 57.8 |
| 09:00 PM - 10:00 PM | 59.6 | 67.2 | 58.0 |
| 10:00 PM - 11:00 PM | 60.1 | 70.0 | 58.5 |
| 11:00 PM - 12:00 AM | 59.7 | 74.1 | 58.6 |
| 12:00 AM - 01:00 AM | 59.5 | 71.7 | 58.8 |
| 01:00 AM - 02:00 AM | 59.1 | 67.2 | 59.5 |
| 02:00 AM - 03:00 AM | 59.5 | 62.4 | 59.0 |
| 03:00 AM - 04:00 AM | 61.0 | 62.2 | 58.6 |
| 04:00 AM - 05:00 AM | 63.8 | 67.5 | 58.4 |
| 05:00 AM - 06:00 AM | 61.7 | 82.0 | 58.1 |
| 06:00 AM - 07:00 AM | 60.6 | 73.0 | 59.2 |
| 07:00 AM - 08:00 AM | 60.1 | 85.0 | 60.1 |
| 08:00 AM - 09:00 AM | 61.2 | 78.3 | 59.5 |
| 09:00 AM - 10:00 AM | 60.6 | 73.4 | 59.1 |
| 10:00 AM - 11:00 AM | 60.1 | 74.2 | 58.8 |
| 11:00 AM - 12:00 PM | 61.2 | 77.6 | 58.6 |

Leq Average 24 hrs. (dB(A)) 59.6
Lmax (dB(A)) 87.3
L90 (dB(A)) 58.4
Ldn (dB(A)) 67.0
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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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8525-209/ EMAIL



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 : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248935-1C18

Page 1 of 1

Sample Number 2220467-3

Parameter Noise (Leq 24 hrs.)

Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)

Measurement Date Feb 23 - Feb 24, 2022

Measurement by Anurak Tongkhajonsakda

Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 60.7 | 82.2 | 57.9 |
| 01:00 PM - 02:00 PM | 59.4 | 76.0 | 56.6 |
| 02:00 PM - 03:00 PM | 58.6 | 73.9 | 56.7 |
| 03:00 PM - 04:00 PM | 59.5 | 73.1 | 58.1 |
| 04:00 PM - 05:00 PM | 60.7 | 83.1 | 57.8 |
| 05:00 PM - 06:00 PM | 61.1 | 74.2 | 59.2 |
| 06:00 PM - 07:00 PM | 61.6 | 82.0 | 59.7 |
| 07:00 PM - 08:00 PM | 59.7 | 75.2 | 57.8 |
| 08:00 PM - 09:00 PM | 59.3 | 77.2 | 58.0 |
| 09:00 PM - 10:00 PM | 59.3 | 69.1 | 58.5 |
| 10:00 PM - 11:00 PM | 59.3 | 70.9 | 58.5 |
| 11:00 PM - 12:00 AM | 59.8 | 68.7 | 59.0 |
| 12:00 AM - 01:00 AM | 59.7 | 72.1 | 58.9 |
| 01:00 AM - 02:00 AM | 60.1 | 72.8 | 59.2 |
| 02:00 AM - 03:00 AM | 60.2 | 69.9 | 59.3 |
| 03:00 AM - 04:00 AM | 60.0 | 63.3 | 59.2 |
| 04:00 AM - 05:00 AM | 60.0 | 64.3 | 59.3 |
| 05:00 AM - 06:00 AM | 60.9 | 74.0 | 59.8 |
| 06:00 AM - 07:00 AM | 61.8 | 73.8 | 60.2 |
| 07:00 AM - 08:00 AM | 63.2 | 77.7 | 60.7 |
| 08:00 AM - 09:00 AM | 62.3 | 82.3 | 59.8 |
| 09:00 AM - 10:00 AM | 60.9 | 76.3 | 59.5 |
| 10:00 AM - 11:00 AM | 61.6 | 84.4 | 59.1 |
| 11:00 AM - 12:00 PM | 61.6 | 79.5 | 59.3 |

Leq Average 24 hrs. (dB(A))

60.6

Lmax (dB(A))

84.4

L90 (dB(A))

59.1

Ldn (dB(A))

66.8

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

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248936-1C18

Page 1 of 1

Sample Number 2220467-4

Parameter Noise (Leq 24 hrs.)

Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)

Measurement Date Feb 24 - Feb 25, 2022

Measurement by Anurak Tongkhajonsakda

Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 59.7 | 78.5 | 57.9 |
| 01:00 PM - 02:00 PM | 59.8 | 77.0 | 57.0 |
| 02:00 PM - 03:00 PM | 58.6 | 72.3 | 57.0 |
| 03:00 PM - 04:00 PM | 59.6 | 80.3 | 57.4 |
| 04:00 PM - 05:00 PM | 62.7 | 85.9 | 58.2 |
| 05:00 PM - 06:00 PM | 60.6 | 72.9 | 58.7 |
| 06:00 PM - 07:00 PM | 61.0 | 83.8 | 58.8 |
| 07:00 PM - 08:00 PM | 59.8 | 81.3 | 58.2 |
| 08:00 PM - 09:00 PM | 59.8 | 73.0 | 58.7 |
| 09:00 PM - 10:00 PM | 60.0 | 75.2 | 59.1 |
| 10:00 PM - 11:00 PM | 59.5 | 67.5 | 58.7 |
| 11:00 PM - 12:00 AM | 59.5 | 68.8 | 58.7 |
| 12:00 AM - 01:00 AM | 59.4 | 71.6 | 58.6 |
| 01:00 AM - 02:00 AM | 59.5 | 66.2 | 58.8 |
| 02:00 AM - 03:00 AM | 59.7 | 63.9 | 59.0 |
| 03:00 AM - 04:00 AM | 66.7 | 80.1 | 58.9 |
| 04:00 AM - 05:00 AM | 61.0 | 78.6 | 58.9 |
| 05:00 AM - 06:00 AM | 60.1 | 73.1 | 59.2 |
| 06:00 AM - 07:00 AM | 61.1 | 75.5 | 59.5 |
| 07:00 AM - 08:00 AM | 63.1 | 83.7 | 59.8 |
| 08:00 AM - 09:00 AM | 62.0 | 78.6 | 59.5 |
| 09:00 AM - 10:00 AM | 60.6 | 76.2 | 59.2 |
| 10:00 AM - 11:00 AM | 60.5 | 77.7 | 59.0 |
| 11:00 AM - 12:00 PM | 61.2 | 80.4 | 58.9 |

Leq Average 24 hrs. (dB(A))

61.1

Lmax (dB(A))

85.9

L90 (dB(A))

58.8

Ldn (dB(A))

67.8

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

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248938-1C18

Page 1 of 1

Sample Number 2220467-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Feb 25 - Feb 26, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 59.4 | 79.0 | 57.5 |
| 01:00 PM - 02:00 PM | 59.3 | 74.5 | 56.7 |
| 02:00 PM - 03:00 PM | 58.9 | 73.0 | 56.9 |
| 03:00 PM - 04:00 PM | 58.8 | 73.8 | 57.0 |
| 04:00 PM - 05:00 PM | 59.9 | 75.7 | 57.5 |
| 05:00 PM - 06:00 PM | 60.9 | 75.4 | 58.7 |
| 06:00 PM - 07:00 PM | 62.0 | 83.9 | 59.3 |
| 07:00 PM - 08:00 PM | 60.5 | 75.4 | 59.2 |
| 08:00 PM - 09:00 PM | 60.6 | 76.6 | 59.3 |
| 09:00 PM - 10:00 PM | 60.4 | 70.0 | 59.5 |
| 10:00 PM - 11:00 PM | 60.3 | 67.6 | 59.5 |
| 11:00 PM - 12:00 AM | 60.4 | 74.5 | 59.5 |
| 12:00 AM - 01:00 AM | 60.4 | 69.0 | 59.4 |
| 01:00 AM - 02:00 AM | 60.2 | 74.4 | 59.3 |
| 02:00 AM - 03:00 AM | 59.7 | 66.4 | 58.9 |
| 03:00 AM - 04:00 AM | 59.8 | 62.7 | 59.0 |
| 04:00 AM - 05:00 AM | 60.4 | 67.7 | 59.4 |
| 05:00 AM - 06:00 AM | 60.6 | 73.1 | 59.7 |
| 06:00 AM - 07:00 AM | 61.4 | 70.8 | 59.8 |
| 07:00 AM - 08:00 AM | 62.6 | 76.0 | 60.4 |
| 08:00 AM - 09:00 AM | 62.3 | 83.2 | 59.7 |
| 09:00 AM - 10:00 AM | 61.8 | 75.4 | 60.4 |
| 10:00 AM - 11:00 AM | 63.0 | 85.4 | 60.1 |
| 11:00 AM - 12:00 PM | 63.4 | 76.5 | 61.5 |

Leq Average 24 hrs. (dB(A)) 60.9

Lmax (dB(A)) 85.4

L90 (dB(A)) 59.3

Ldn (dB(A)) 66.9

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

Technical Management

Thanitak.

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248938-1C18

Page 1 of 1

Sample Number 2220467-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Feb 26 - Feb 27, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 63.9 | 84.3 | 62.0 |
| 01:00 PM - 02:00 PM | 62.0 | 77.5 | 60.1 |
| 02:00 PM - 03:00 PM | 61.6 | 79.5 | 60.3 |
| 03:00 PM - 04:00 PM | 61.6 | 71.4 | 60.8 |
| 04:00 PM - 05:00 PM | 61.6 | 73.2 | 60.8 |
| 05:00 PM - 06:00 PM | 62.1 | 71.0 | 61.3 |
| 06:00 PM - 07:00 PM | 62.0 | 74.4 | 61.2 |
| 07:00 PM - 08:00 PM | 62.4 | 75.1 | 61.5 |
| 08:00 PM - 09:00 PM | 58.9 | 68.6 | 58.0 |
| 09:00 PM - 10:00 PM | 58.7 | 62.0 | 57.9 |
| 10:00 PM - 11:00 PM | 58.7 | 63.0 | 58.0 |
| 11:00 PM - 12:00 AM | 59.6 | 72.7 | 58.5 |
| 12:00 AM - 01:00 AM | 60.5 | 72.5 | 58.9 |
| 01:00 AM - 02:00 AM | 61.9 | 76.4 | 59.4 |
| 02:00 AM - 03:00 AM | 61.0 | 81.0 | 58.5 |
| 03:00 AM - 04:00 AM | 59.6 | 75.0 | 58.2 |
| 04:00 AM - 05:00 AM | 60.3 | 83.1 | 57.8 |
| 05:00 AM - 06:00 AM | 60.3 | 78.2 | 58.0 |
| 06:00 AM - 07:00 AM | 58.4 | 77.2 | 56.6 |
| 07:00 AM - 08:00 AM | 58.5 | 75.7 | 55.7 |
| 08:00 AM - 09:00 AM | 58.8 | 72.5 | 57.2 |
| 09:00 AM - 10:00 AM | 59.8 | 80.5 | 57.6 |
| 10:00 AM - 11:00 AM | 62.9 | 86.1 | 58.4 |
| 11:00 AM - 12:00 PM | 60.8 | 73.1 | 58.9 |

Leq Average 24 hrs. (dB(A)) 60.9

Lmax (dB(A)) 86.1

L90 (dB(A)) 58.5

Ldn (dB(A)) 66.8

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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8525-209/ EMAIL



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 : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248939-1C18

Page 1 of 1

Sample Number 2220467-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Feb 27 - Feb 28, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734221

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 61.2 | 84.0 | 59.0 |
| 01:00 PM - 02:00 PM | 60.0 | 81.5 | 58.4 |
| 02:00 PM - 03:00 PM | 60.0 | 73.2 | 58.9 |
| 03:00 PM - 04:00 PM | 60.2 | 75.4 | 59.3 |
| 04:00 PM - 05:00 PM | 59.7 | 67.7 | 58.9 |
| 05:00 PM - 06:00 PM | 59.7 | 69.0 | 58.9 |
| 06:00 PM - 07:00 PM | 59.6 | 71.8 | 58.8 |
| 07:00 PM - 08:00 PM | 59.7 | 66.4 | 59.0 |
| 08:00 PM - 09:00 PM | 59.9 | 64.1 | 59.2 |
| 09:00 PM - 10:00 PM | 66.9 | 80.3 | 59.1 |
| 10:00 PM - 11:00 PM | 60.1 | 77.7 | 58.0 |
| 11:00 PM - 12:00 AM | 59.2 | 72.2 | 58.3 |
| 12:00 AM - 01:00 AM | 60.2 | 74.6 | 58.6 |
| 01:00 AM - 02:00 AM | 62.2 | 82.8 | 58.9 |
| 02:00 AM - 03:00 AM | 61.1 | 77.7 | 58.6 |
| 03:00 AM - 04:00 AM | 59.7 | 75.3 | 58.3 |
| 04:00 AM - 05:00 AM | 59.6 | 76.8 | 58.1 |
| 05:00 AM - 06:00 AM | 60.3 | 79.5 | 58.0 |
| 06:00 AM - 07:00 AM | 58.5 | 78.1 | 56.6 |
| 07:00 AM - 08:00 AM | 58.4 | 73.6 | 55.8 |
| 08:00 AM - 09:00 AM | 58.0 | 72.1 | 56.0 |
| 09:00 AM - 10:00 AM | 57.9 | 72.9 | 56.1 |
| 10:00 AM - 11:00 AM | 59.0 | 74.8 | 56.6 |
| 11:00 AM - 12:00 PM | 60.5 | 75.0 | 58.3 |

Leq Average 24 hrs. (dB(A)) 60.6
Lmax (dB(A)) 84.0
L90 (dB(A)) 58.4
Ldn (dB(A)) 66.7
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

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248940-1C18

Page 1 of 1

Sample Number 2220467-8
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างบ่อน ปก นลคค 45) (GPS 47P 0727136, 1404550)
Measurement Date Feb 21 - Feb 22, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 56.2 | 81.9 | 50.7 |
| 01:00 PM - 02:00 PM | 56.1 | 77.0 | 48.6 |
| 02:00 PM - 03:00 PM | 55.4 | 79.4 | 47.8 |
| 03:00 PM - 04:00 PM | 51.3 | 70.4 | 47.3 |
| 04:00 PM - 05:00 PM | 53.3 | 75.0 | 48.1 |
| 05:00 PM - 06:00 PM | 53.4 | 77.1 | 48.6 |
| 06:00 PM - 07:00 PM | 53.3 | 74.2 | 49.7 |
| 07:00 PM - 08:00 PM | 52.0 | 68.5 | 49.0 |
| 08:00 PM - 09:00 PM | 56.7 | 80.7 | 48.5 |
| 09:00 PM - 10:00 PM | 50.3 | 59.2 | 49.2 |
| 10:00 PM - 11:00 PM | 50.4 | 60.1 | 49.0 |
| 11:00 PM - 12:00 AM | 52.5 | 77.4 | 50.9 |
| 12:00 AM - 01:00 AM | 57.6 | 81.7 | 52.0 |
| 01:00 AM - 02:00 AM | 53.6 | 74.7 | 52.5 |
| 02:00 AM - 03:00 AM | 53.5 | 60.4 | 52.6 |
| 03:00 AM - 04:00 AM | 53.9 | 59.7 | 53.0 |
| 04:00 AM - 05:00 AM | 53.9 | 70.2 | 53.0 |
| 05:00 AM - 06:00 AM | 54.9 | 72.7 | 53.4 |
| 06:00 AM - 07:00 AM | 58.0 | 75.2 | 54.8 |
| 07:00 AM - 08:00 AM | 58.8 | 78.2 | 55.5 |
| 08:00 AM - 09:00 AM | 55.9 | 72.1 | 53.6 |
| 09:00 AM - 10:00 AM | 57.0 | 82.0 | 53.0 |
| 10:00 AM - 11:00 AM | 54.5 | 78.1 | 51.6 |
| 11:00 AM - 12:00 PM | 52.3 | 71.7 | 50.0 |

Leq Average 24 hrs. (dB(A)) 55.0
Lmax (dB(A)) 82.0
L90 (dB(A)) 50.7
Ldn (dB(A)) 61.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248942-1C18

Page 1 of 1

Sample Number 2220467-9
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊มน ปรก นลอค 45) (GPS 47P 0727136, 1404550)
Measurement Date Feb 22 - Feb 23, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 52.3 | 72.2 | 48.4 |
| 01:00 PM - 02:00 PM | 53.0 | 76.3 | 49.2 |
| 02:00 PM - 03:00 PM | 56.2 | 79.6 | 49.3 |
| 03:00 PM - 04:00 PM | 52.0 | 73.8 | 48.4 |
| 04:00 PM - 05:00 PM | 52.1 | 69.9 | 47.0 |
| 05:00 PM - 06:00 PM | 52.6 | 68.4 | 47.8 |
| 06:00 PM - 07:00 PM | 55.8 | 76.2 | 49.9 |
| 07:00 PM - 08:00 PM | 52.4 | 67.1 | 50.1 |
| 08:00 PM - 09:00 PM | 52.9 | 70.9 | 50.5 |
| 09:00 PM - 10:00 PM | 52.4 | 57.9 | 51.3 |
| 10:00 PM - 11:00 PM | 54.2 | 83.7 | 51.3 |
| 11:00 PM - 12:00 AM | 53.8 | 70.6 | 51.6 |
| 12:00 AM - 01:00 AM | 53.9 | 61.5 | 52.1 |
| 01:00 AM - 02:00 AM | 52.5 | 65.4 | 51.3 |
| 02:00 AM - 03:00 AM | 52.6 | 61.7 | 51.1 |
| 03:00 AM - 04:00 AM | 53.5 | 62.2 | 51.5 |
| 04:00 AM - 05:00 AM | 53.9 | 70.8 | 51.9 |
| 05:00 AM - 06:00 AM | 57.5 | 80.3 | 52.8 |
| 06:00 AM - 07:00 AM | 58.9 | 85.8 | 54.3 |
| 07:00 AM - 08:00 AM | 58.2 | 78.1 | 54.3 |
| 08:00 AM - 09:00 AM | 56.7 | 78.4 | 53.3 |
| 09:00 AM - 10:00 AM | 55.3 | 79.4 | 53.1 |
| 10:00 AM - 11:00 AM | 55.2 | 79.0 | 52.7 |
| 11:00 AM - 12:00 PM | 53.9 | 78.6 | 50.8 |

Leq Average 24 hrs. (dB(A)) 54.8

Lmax (dB(A)) 85.8

L90 (dB(A)) 51.3

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

Technical Management

Thanitak.

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248942-1C18

Page 1 of 1

Sample Number 2220467-10
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊มน ปรก นลอค 45) (GPS 47P 0727136, 1404550)
Measurement Date Feb 23 - Feb 24, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 52.6 | 77.0 | 50.1 |
| 01:00 PM - 02:00 PM | 55.5 | 75.4 | 50.5 |
| 02:00 PM - 03:00 PM | 57.0 | 79.0 | 51.4 |
| 03:00 PM - 04:00 PM | 55.6 | 76.5 | 51.1 |
| 04:00 PM - 05:00 PM | 53.5 | 74.5 | 48.9 |
| 05:00 PM - 06:00 PM | 52.9 | 72.2 | 49.4 |
| 06:00 PM - 07:00 PM | 54.7 | 76.9 | 49.7 |
| 07:00 PM - 08:00 PM | 52.1 | 68.2 | 49.4 |
| 08:00 PM - 09:00 PM | 51.5 | 70.2 | 49.9 |
| 09:00 PM - 10:00 PM | 53.6 | 66.0 | 51.0 |
| 10:00 PM - 11:00 PM | 55.9 | 72.2 | 53.4 |
| 11:00 PM - 12:00 AM | 56.4 | 66.7 | 53.9 |
| 12:00 AM - 01:00 AM | 56.3 | 68.7 | 54.1 |
| 01:00 AM - 02:00 AM | 56.2 | 70.8 | 54.0 |
| 02:00 AM - 03:00 AM | 55.9 | 76.2 | 53.9 |
| 03:00 AM - 04:00 AM | 55.7 | 67.3 | 54.0 |
| 04:00 AM - 05:00 AM | 55.6 | 76.3 | 54.1 |
| 05:00 AM - 06:00 AM | 57.1 | 71.7 | 54.7 |
| 06:00 AM - 07:00 AM | 60.6 | 82.8 | 57.3 |
| 07:00 AM - 08:00 AM | 60.8 | 78.6 | 56.9 |
| 08:00 AM - 09:00 AM | 59.4 | 91.3 | 55.1 |
| 09:00 AM - 10:00 AM | 60.8 | 89.8 | 54.8 |
| 10:00 AM - 11:00 AM | 60.7 | 93.4 | 54.9 |
| 11:00 AM - 12:00 PM | 59.7 | 86.9 | 54.0 |

Leq Average 24 hrs. (dB(A)) 57.2

Lmax (dB(A)) 93.4

L90 (dB(A)) 53.9

Ldn (dB(A)) 63.4

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Thanitak.

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248943-1C18

Page 1 of 1

Sample Number 2220467-11
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างม๊อม ปลูก บล็ค 45) (GPS 47P 0727136, 1404550)
Measurement Date Feb 24 - Feb 25, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 61.0 | 83.8 | 54.5 |
| 01:00 PM - 02:00 PM | 59.8 | 77.6 | 52.2 |
| 02:00 PM - 03:00 PM | 56.6 | 81.5 | 46.1 |
| 03:00 PM - 04:00 PM | 51.4 | 71.8 | 46.0 |
| 04:00 PM - 05:00 PM | 51.5 | 71.5 | 46.9 |
| 05:00 PM - 06:00 PM | 51.6 | 72.8 | 47.9 |
| 06:00 PM - 07:00 PM | 54.2 | 75.5 | 49.4 |
| 07:00 PM - 08:00 PM | 52.4 | 69.4 | 50.8 |
| 08:00 PM - 09:00 PM | 53.3 | 77.4 | 51.9 |
| 09:00 PM - 10:00 PM | 54.1 | 80.7 | 51.7 |
| 10:00 PM - 11:00 PM | 53.1 | 80.6 | 51.7 |
| 11:00 PM - 12:00 AM | 54.2 | 84.8 | 52.3 |
| 12:00 AM - 01:00 AM | 54.2 | 81.0 | 52.3 |
| 01:00 AM - 02:00 AM | 54.0 | 80.8 | 52.2 |
| 02:00 AM - 03:00 AM | 54.1 | 81.2 | 52.2 |
| 03:00 AM - 04:00 AM | 54.5 | 81.3 | 52.5 |
| 04:00 AM - 05:00 AM | 54.4 | 85.9 | 52.3 |
| 05:00 AM - 06:00 AM | 57.8 | 86.3 | 53.3 |
| 06:00 AM - 07:00 AM | 59.3 | 87.3 | 54.4 |
| 07:00 AM - 08:00 AM | 60.3 | 86.7 | 54.4 |
| 08:00 AM - 09:00 AM | 60.1 | 87.7 | 54.1 |
| 09:00 AM - 10:00 AM | 59.9 | 88.7 | 53.8 |
| 10:00 AM - 11:00 AM | 59.1 | 89.2 | 53.1 |
| 11:00 AM - 12:00 PM | 54.6 | 73.4 | 52.3 |

Leq Average 24 hrs. (dB(A)) 56.8
Lmax (dB(A)) 89.2
L90 (dB(A)) 52.2
Ldn (dB(A)) 62.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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.

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

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248944-1C18

Page 1 of 1

Sample Number 2220467-12
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างม๊อม ปลูก บล็ค 45) (GPS 47P 0727136, 1404550)
Measurement Date Feb 25 - Feb 26, 2022
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 54.2 | 81.3 | 51.2 |
| 01:00 PM - 02:00 PM | 53.1 | 71.3 | 50.6 |
| 02:00 PM - 03:00 PM | 56.9 | 80.7 | 47.5 |
| 03:00 PM - 04:00 PM | 52.4 | 66.6 | 47.5 |
| 04:00 PM - 05:00 PM | 54.6 | 70.1 | 50.3 |
| 05:00 PM - 06:00 PM | 54.3 | 72.3 | 52.0 |
| 06:00 PM - 07:00 PM | 54.7 | 70.9 | 51.9 |
| 07:00 PM - 08:00 PM | 53.5 | 67.2 | 52.0 |
| 08:00 PM - 09:00 PM | 53.3 | 66.8 | 51.9 |
| 09:00 PM - 10:00 PM | 52.5 | 64.4 | 51.4 |
| 10:00 PM - 11:00 PM | 52.7 | 67.3 | 51.8 |
| 11:00 PM - 12:00 AM | 53.0 | 65.8 | 52.0 |
| 12:00 AM - 01:00 AM | 53.5 | 68.0 | 52.4 |
| 01:00 AM - 02:00 AM | 56.3 | 76.9 | 52.6 |
| 02:00 AM - 03:00 AM | 52.7 | 62.4 | 51.7 |
| 03:00 AM - 04:00 AM | 53.5 | 61.0 | 52.4 |
| 04:00 AM - 05:00 AM | 53.6 | 72.7 | 52.5 |
| 05:00 AM - 06:00 AM | 55.0 | 67.8 | 53.6 |
| 06:00 AM - 07:00 AM | 56.3 | 72.7 | 54.2 |
| 07:00 AM - 08:00 AM | 57.7 | 86.1 | 54.0 |
| 08:00 AM - 09:00 AM | 54.7 | 78.3 | 52.4 |
| 09:00 AM - 10:00 AM | 55.6 | 78.6 | 52.9 |
| 10:00 AM - 11:00 AM | 55.6 | 83.1 | 52.9 |
| 11:00 AM - 12:00 PM | 52.9 | 68.1 | 50.4 |

Leq Average 24 hrs. (dB(A)) 54.5
Lmax (dB(A)) 86.1
L90 (dB(A)) 52.0
Ldn (dB(A)) 60.8
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

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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RIGHT SOLUTIONS RIGHT PARTNER

8525-209/ EMAIL



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 : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248945-1C18

Page 1 of 1

Sample Number 2220467-13

Parameter Noise (Leq 24 hrs.)

Location บริเวณเริ่มรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างโรงแรม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)

Measurement Date Feb 26 - Feb 27, 2022

Measurement by Anurak Tongkhajonsakda

Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 52.6 | 66.6 | 50.2 |
| 01:00 PM - 02:00 PM | 53.0 | 70.3 | 49.9 |
| 02:00 PM - 03:00 PM | 56.0 | 79.9 | 49.9 |
| 03:00 PM - 04:00 PM | 54.2 | 78.1 | 50.0 |
| 04:00 PM - 05:00 PM | 52.7 | 80.9 | 48.6 |
| 05:00 PM - 06:00 PM | 51.3 | 66.8 | 46.6 |
| 06:00 PM - 07:00 PM | 53.7 | 70.4 | 48.5 |
| 07:00 PM - 08:00 PM | 52.8 | 67.8 | 50.7 |
| 08:00 PM - 09:00 PM | 53.4 | 69.4 | 51.6 |
| 09:00 PM - 10:00 PM | 54.2 | 74.2 | 51.8 |
| 10:00 PM - 11:00 PM | 52.5 | 61.4 | 51.6 |
| 11:00 PM - 12:00 AM | 52.3 | 59.8 | 51.5 |
| 12:00 AM - 01:00 AM | 52.7 | 64.6 | 51.8 |
| 01:00 AM - 02:00 AM | 52.9 | 60.6 | 52.1 |
| 02:00 AM - 03:00 AM | 52.8 | 63.7 | 52.0 |
| 03:00 AM - 04:00 AM | 53.2 | 67.1 | 52.3 |
| 04:00 AM - 05:00 AM | 53.5 | 66.4 | 52.6 |
| 05:00 AM - 06:00 AM | 56.1 | 77.4 | 52.7 |
| 06:00 AM - 07:00 AM | 57.4 | 87.3 | 53.9 |
| 07:00 AM - 08:00 AM | 51.4 | 75.8 | 48.9 |
| 08:00 AM - 09:00 AM | 54.3 | 74.2 | 49.3 |
| 09:00 AM - 10:00 AM | 55.8 | 77.8 | 50.2 |
| 10:00 AM - 11:00 AM | 54.4 | 75.3 | 49.9 |
| 11:00 AM - 12:00 PM | 52.3 | 73.3 | 47.7 |

Leq Average 24 hrs. (dB(A))

53.8

Lmax (dB(A))

87.3

L90 (dB(A))

50.2

Ldn (dB(A))

60.4

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

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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8525-209/ EMAIL



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 : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2220467

Date Received : Mar 01, 2022

Date Reported : Mar 05, 2022

Report Number: 2248946-1C18

Page 1 of 1

Sample Number 2220467-14

Parameter Noise (Leq 24 hrs.)

Location บริเวณเริ่มรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างโรงแรม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)

Measurement Date Feb 27 - Feb 28, 2022

Measurement by Anurak Tongkhajonsakda

Sound Level meter Serial No. 734223

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 51.7 | 71.0 | 48.2 |
| 01:00 PM - 02:00 PM | 53.5 | 75.7 | 48.5 |
| 02:00 PM - 03:00 PM | 50.9 | 67.0 | 48.2 |
| 03:00 PM - 04:00 PM | 52.1 | 70.8 | 50.5 |
| 04:00 PM - 05:00 PM | 54.2 | 66.6 | 51.6 |
| 05:00 PM - 06:00 PM | 56.5 | 72.8 | 54.0 |
| 06:00 PM - 07:00 PM | 57.0 | 67.3 | 54.5 |
| 07:00 PM - 08:00 PM | 56.9 | 69.3 | 54.7 |
| 08:00 PM - 09:00 PM | 56.8 | 71.4 | 54.6 |
| 09:00 PM - 10:00 PM | 56.5 | 76.8 | 54.5 |
| 10:00 PM - 11:00 PM | 56.3 | 67.9 | 54.6 |
| 11:00 PM - 12:00 AM | 54.8 | 75.5 | 53.3 |
| 12:00 AM - 01:00 AM | 56.3 | 70.9 | 53.9 |
| 01:00 AM - 02:00 AM | 59.8 | 82.0 | 56.5 |
| 02:00 AM - 03:00 AM | 60.0 | 77.8 | 56.1 |
| 03:00 AM - 04:00 AM | 58.6 | 90.5 | 54.3 |
| 04:00 AM - 05:00 AM | 60.0 | 89.0 | 54.0 |
| 05:00 AM - 06:00 AM | 59.9 | 92.6 | 54.1 |
| 06:00 AM - 07:00 AM | 58.9 | 86.1 | 53.2 |
| 07:00 AM - 08:00 AM | 60.2 | 83.0 | 53.7 |
| 08:00 AM - 09:00 AM | 59.0 | 76.8 | 51.4 |
| 09:00 AM - 10:00 AM | 54.3 | 79.2 | 43.8 |
| 10:00 AM - 11:00 AM | 49.1 | 69.5 | 43.7 |
| 11:00 AM - 12:00 PM | 49.2 | 69.2 | 44.6 |

Leq Average 24 hrs. (dB(A))

57.0

Lmax (dB(A))

92.6

L90 (dB(A))

53.7

Ldn (dB(A))

64.7

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ

โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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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 : 4512888328

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 21149880

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236442-1

Page 1 of 1

Sample Number : 21149880-1
Parameter : Octave Band
Location : ท้องฟ้าบริเวณ
Measurement Date : Feb 08, 2022
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 |
| 09:14 AM - 10:14 AM | 77.8 | 17.3 | 35.2 | 46.8 | 61.9 | 62.2 | 66.7 | 69.9 | 70.3 | 73.1 | 69.9 | 61.4 |
| 10:14 AM - 11:14 AM | 78.4 | 17.7 | 34.6 | 46.6 | 60.9 | 66.5 | 67.4 | 70.3 | 70.4 | 74.0 | 69.9 | 61.5 |
| 11:14 AM - 12:14 PM | 78.2 | 18.9 | 34.2 | 46.4 | 60.1 | 63.0 | 66.8 | 69.9 | 70.0 | 74.4 | 69.9 | 61.3 |
| 12:14 PM - 01:14 PM | 78.3 | 16.8 | 34.1 | 46.6 | 59.9 | 63.1 | 67.5 | 70.1 | 70.5 | 74.2 | 69.9 | 61.3 |
| 01:14 PM - 02:14 PM | 78.3 | 16.7 | 34.4 | 46.8 | 59.6 | 63.4 | 67.6 | 70.0 | 70.4 | 74.2 | 69.9 | 61.2 |
| 02:14 PM - 03:14 PM | 78.2 | 16.1 | 34.3 | 46.8 | 59.9 | 63.5 | 67.3 | 70.0 | 70.6 | 74.1 | 69.9 | 61.5 |
| 03:14 PM - 04:14 PM | 78.0 | 16.4 | 34.1 | 46.5 | 59.3 | 63.1 | 67.3 | 69.7 | 70.1 | 73.9 | 69.6 | 60.9 |
| 04:14 PM - 05:14 PM | 78.1 | 18.8 | 34.1 | 46.3 | 60.0 | 62.9 | 66.7 | 69.8 | 69.9 | 74.3 | 69.8 | 61.2 |
| Average | 78.2 | 17.5 | 34.4 | 46.6 | 60.3 | 63.7 | 67.2 | 70.0 | 70.3 | 74.0 | 69.9 | 61.3 |

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 (9:19AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512888328

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 21149880

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236443-1

Page 1 of 1

Sample Number : 21149880-2
Parameter : Octave Band
Location : ท้องฟ้าบริเวณ
Measurement Date : Feb 08, 2022
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 |
| 09:26 AM - 10:26 AM | 79.0 | 21.2 | 40.6 | 53.9 | 68.9 | 66.8 | 70.4 | 74.0 | 72.1 | 70.0 | 66.2 | 59.2 |
| 10:26 AM - 11:26 AM | 79.0 | 21.0 | 40.3 | 53.4 | 69.1 | 66.9 | 70.4 | 74.0 | 72.0 | 70.0 | 66.2 | 59.2 |
| 11:26 AM - 12:26 PM | 79.0 | 20.9 | 40.0 | 53.4 | 69.1 | 66.0 | 70.5 | 74.0 | 72.0 | 70.1 | 66.2 | 59.0 |
| 12:26 PM - 01:26 PM | 79.0 | 20.8 | 40.1 | 53.6 | 68.3 | 66.2 | 70.5 | 74.0 | 72.2 | 70.2 | 66.2 | 59.1 |
| 01:26 PM - 02:26 PM | 78.9 | 20.6 | 40.0 | 53.3 | 67.5 | 66.0 | 70.4 | 73.9 | 72.2 | 70.2 | 66.2 | 59.0 |
| 02:26 PM - 03:26 PM | 79.0 | 20.5 | 40.1 | 53.6 | 67.9 | 66.2 | 70.4 | 74.0 | 72.3 | 70.2 | 66.3 | 59.2 |
| 03:26 PM - 04:26 PM | 78.9 | 20.7 | 40.0 | 53.5 | 68.2 | 66.1 | 70.4 | 73.9 | 72.1 | 70.1 | 66.1 | 59.0 |
| 04:26 PM - 05:26 PM | 79.0 | 20.7 | 40.1 | 53.4 | 67.6 | 66.1 | 70.5 | 74.0 | 72.3 | 70.3 | 66.3 | 59.1 |
| Average | 79.0 | 20.8 | 40.2 | 53.5 | 68.4 | 66.3 | 70.4 | 74.0 | 72.2 | 70.1 | 66.2 | 59.1 |

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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8525-81/ EMAIL

S:\Reports\Air Noise_Octave band.rpt (9:19AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4512888340
Project Name : Environmental Quality Monitoring
Project Location : Polyol

Lot ID: 21149893
Date Received : Feb 08, 2022
Date Reported : Feb 17, 2022
Report Number : 2236457-1

Page 1 of 1

Sample Number 21149893-1
Parameter Octave Band
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Measurement Date Feb 08, 2022
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 |
| 09:05 AM - 10:05 AM | 76.3 | 16.0 | 30.3 | 41.2 | 52.8 | 62.1 | 66.0 | 66.5 | 69.0 | 72.9 | 67.0 | 49.1 |
| 10:05 AM - 11:05 AM | 77.3 | 14.5 | 29.5 | 41.6 | 52.9 | 62.3 | 66.8 | 68.4 | 71.1 | 73.3 | 67.2 | 50.3 |
| 11:05 AM - 12:05 PM | 76.8 | 14.6 | 29.7 | 42.6 | 53.0 | 62.1 | 66.0 | 67.3 | 70.2 | 73.2 | 67.0 | 49.2 |
| 12:05 PM - 01:05 PM | 76.3 | 14.5 | 30.6 | 42.0 | 52.7 | 61.9 | 65.5 | 66.1 | 69.1 | 73.0 | 66.9 | 48.7 |
| 01:05 PM - 02:05 PM | 78.0 | 14.3 | 30.8 | 43.5 | 53.1 | 62.1 | 66.7 | 69.6 | 72.1 | 73.9 | 68.0 | 50.8 |
| 02:05 PM - 03:05 PM | 77.7 | 14.9 | 29.9 | 42.0 | 53.3 | 62.7 | 67.2 | 68.8 | 71.5 | 73.7 | 67.6 | 50.7 |
| 03:05 PM - 04:05 PM | 77.8 | 14.1 | 30.6 | 43.3 | 52.9 | 61.9 | 66.5 | 69.4 | 71.9 | 73.7 | 67.8 | 50.6 |
| 04:05 PM - 05:05 PM | 77.0 | 15.2 | 31.3 | 42.7 | 53.4 | 62.5 | 66.2 | 66.8 | 69.8 | 73.7 | 67.6 | 49.4 |
| Average | 77.2 | 14.8 | 30.4 | 42.4 | 53.0 | 62.2 | 66.4 | 68.0 | 70.7 | 73.4 | 67.4 | 49.9 |

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 (9:29AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4512888340
Project Name : Environmental Quality Monitoring
Project Location : Polyol

Lot ID: 21149893
Date Received : Feb 08, 2022
Date Reported : Feb 17, 2022
Report Number : 2236458-1

Page 1 of 1

Sample Number 21149893-2
Parameter Octave Band
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Measurement Date Feb 08, 2022
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 |
| 09:00 AM - 10:00 AM | 77.4 | 22.8 | 42.0 | 51.4 | 64.7 | 66.0 | 68.1 | 71.2 | 70.7 | 70.4 | 67.2 | 57.8 |
| 10:00 AM - 11:00 AM | 77.4 | 23.1 | 41.8 | 51.1 | 64.7 | 66.4 | 68.1 | 71.2 | 70.6 | 70.3 | 67.2 | 57.8 |
| 11:00 AM - 12:00 PM | 77.4 | 23.2 | 41.5 | 51.4 | 64.5 | 66.1 | 68.0 | 71.2 | 70.7 | 70.4 | 67.1 | 57.6 |
| 12:00 PM - 01:00 PM | 77.4 | 23.2 | 41.5 | 51.8 | 64.2 | 66.1 | 68.0 | 71.2 | 70.7 | 70.4 | 67.1 | 57.6 |
| 01:00 PM - 02:00 PM | 77.3 | 23.2 | 41.8 | 51.9 | 64.0 | 66.0 | 68.0 | 71.1 | 70.7 | 70.3 | 67.0 | 57.5 |
| 02:00 PM - 03:00 PM | 77.5 | 23.0 | 41.8 | 51.9 | 64.3 | 66.1 | 68.2 | 71.3 | 70.8 | 70.4 | 67.1 | 57.8 |
| 03:00 PM - 04:00 PM | 77.6 | 23.3 | 42.0 | 51.3 | 64.9 | 66.6 | 68.3 | 71.4 | 70.8 | 70.5 | 67.4 | 58.0 |
| 04:00 PM - 05:00 PM | 77.5 | 23.3 | 41.6 | 51.9 | 64.3 | 66.2 | 68.1 | 71.3 | 70.8 | 70.5 | 67.2 | 57.7 |
| Average | 77.4 | 23.1 | 41.8 | 51.6 | 64.5 | 66.2 | 68.1 | 71.2 | 70.7 | 70.4 | 67.2 | 57.7 |

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 (9:30AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4512888328
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2240309
Date Received : May 12, 2022
Date Reported : May 21, 2022
Report Number : 2274480-1

Page 1 of 1

Sample Number : 2240309-1
Parameter : Octave Band
Location : โรงงานโพลียอล
Measurement Date : May 12, 2022
Measurement By : Sathaporn Thakarw

| 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 |
| 09:24 AM - 10:24 AM | 79.0 | 14.6 | 33.4 | 46.9 | 59.7 | 64.5 | 69.0 | 72.0 | 71.9 | 74.0 | 69.9 | 61.1 |
| 10:24 AM - 11:24 AM | 78.4 | 15.3 | 33.3 | 46.7 | 60.5 | 64.6 | 69.0 | 71.6 | 71.2 | 73.3 | 68.7 | 59.7 |
| 11:24 AM - 12:24 PM | 78.4 | 15.2 | 33.1 | 46.7 | 60.6 | 64.6 | 69.0 | 71.6 | 71.2 | 73.3 | 68.7 | 59.7 |
| 12:24 PM - 01:24 PM | 78.5 | 15.5 | 33.5 | 47.3 | 59.7 | 64.8 | 69.0 | 71.7 | 71.3 | 73.4 | 68.6 | 59.7 |
| 01:24 PM - 02:24 PM | 78.3 | 15.0 | 33.8 | 47.4 | 59.1 | 64.8 | 68.8 | 71.6 | 71.2 | 73.2 | 68.6 | 59.8 |
| 02:24 PM - 03:24 PM | 78.3 | 15.1 | 33.8 | 47.5 | 58.8 | 64.9 | 68.8 | 71.7 | 71.2 | 73.2 | 68.7 | 59.9 |
| 03:24 PM - 04:24 PM | 78.4 | 15.2 | 33.9 | 47.6 | 58.6 | 64.8 | 68.9 | 71.7 | 71.3 | 73.1 | 68.7 | 59.9 |
| 04:24 PM - 05:24 PM | 78.7 | 15.0 | 33.8 | 47.8 | 58.5 | 64.9 | 69.6 | 72.5 | 71.5 | 73.3 | 68.7 | 60.0 |
| Average | 78.5 | 15.1 | 33.6 | 47.3 | 59.5 | 64.7 | 69.0 | 71.8 | 71.4 | 73.4 | 68.8 | 60.0 |

Reference Method : ANSI Standard S1.6-1984

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (10-15AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4512888328
Project Name : Environmental Quality Monitoring
Project Location : AIE_DMC Polyol Plant

Lot ID: 2240309
Date Received : May 12, 2022
Date Reported : May 21, 2022
Report Number : 2274480-2

Page 1 of 1

Sample Number : 2240309-2
Parameter : Octave Band
Location : โรงงานโพลียอล
Measurement Date : May 12, 2022
Measurement By : Sathaporn Thakarw

| 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 | 78.7 | 15.6 | 33.6 | 47.0 | 60.8 | 64.9 | 69.3 | 71.9 | 71.5 | 73.6 | 69.0 | 60.0 |
| 10:30 AM - 11:30 AM | 79.1 | 14.7 | 33.5 | 47.0 | 59.8 | 64.6 | 69.1 | 72.1 | 72.0 | 74.1 | 70.0 | 61.2 |
| 11:30 AM - 12:30 PM | 78.8 | 15.8 | 33.8 | 47.6 | 60.0 | 65.1 | 69.3 | 72.0 | 71.6 | 73.7 | 68.9 | 60.0 |
| 12:30 PM - 01:30 PM | 78.6 | 15.4 | 33.3 | 46.9 | 60.8 | 64.8 | 69.2 | 71.8 | 71.4 | 73.5 | 68.9 | 59.9 |
| 01:30 PM - 02:30 PM | 79.4 | 16.2 | 34.9 | 48.6 | 59.9 | 66.0 | 69.9 | 72.8 | 72.3 | 74.3 | 69.8 | 61.0 |
| 02:30 PM - 03:30 PM | 79.1 | 15.8 | 34.6 | 48.2 | 59.9 | 65.6 | 69.6 | 72.4 | 72.0 | 74.0 | 69.4 | 60.6 |
| 03:30 PM - 04:30 PM | 79.0 | 15.3 | 34.1 | 48.1 | 58.8 | 65.2 | 69.9 | 72.8 | 71.8 | 73.6 | 69.0 | 60.3 |
| 04:30 PM - 05:30 PM | 78.9 | 15.7 | 34.4 | 48.1 | 59.1 | 65.3 | 69.4 | 72.2 | 71.8 | 73.6 | 69.2 | 60.4 |
| Average | 79.0 | 15.6 | 34.1 | 47.7 | 59.9 | 65.2 | 69.5 | 72.3 | 71.8 | 73.8 | 69.3 | 60.4 |

Reference Method : ANSI Standard S1.6-1984

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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S:\Reports_Air Noise_Octave band rpt (10-15AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512888340

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2242560

Date Received : May 12, 2022

Date Reported : May 21, 2022

Report Number : 2279694-1

Page 1 of 1

Sample Number 2242560-1
Parameter Octave Band
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Measurement Date May 12, 2022
Measurement By Sathapron Thakarnw

| 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 |
| 10:05 AM - 11:05 AM | 77.6 | 14.5 | 29.9 | 44.6 | 54.5 | 65.3 | 69.4 | 72.0 | 72.5 | 70.4 | 60.5 | 48.0 |
| 11:05 AM - 12:05 PM | 77.5 | 14.4 | 29.9 | 44.1 | 54.1 | 66.5 | 69.7 | 70.8 | 70.7 | 71.8 | 65.0 | 49.1 |
| 12:05 PM - 01:05 PM | 77.6 | 14.6 | 29.3 | 44.3 | 55.2 | 66.3 | 70.1 | 70.6 | 70.4 | 72.1 | 65.5 | 49.8 |
| 01:05 PM - 02:05 PM | 79.3 | 14.7 | 29.5 | 43.4 | 54.7 | 63.3 | 68.9 | 72.7 | 74.8 | 73.0 | 67.6 | 51.9 |
| 02:05 PM - 03:05 PM | 80.2 | 15.1 | 30.0 | 45.5 | 54.5 | 63.7 | 69.5 | 72.1 | 75.4 | 75.1 | 69.4 | 53.9 |
| 03:05 PM - 04:05 PM | 79.7 | 15.5 | 30.2 | 44.0 | 54.8 | 63.6 | 68.3 | 69.9 | 74.4 | 76.0 | 68.8 | 52.2 |
| 04:05 PM - 05:05 PM | 77.0 | 14.5 | 30.3 | 46.3 | 54.6 | 63.1 | 67.8 | 68.1 | 70.4 | 73.3 | 64.9 | 49.3 |
| 05:05 PM - 06:05 PM | 77.6 | 14.5 | 30.0 | 44.2 | 54.2 | 66.6 | 69.8 | 70.9 | 70.8 | 71.9 | 65.1 | 49.2 |
| Average | 78.5 | 14.7 | 29.9 | 44.6 | 54.6 | 65.0 | 69.2 | 71.1 | 72.9 | 73.3 | 66.6 | 50.9 |

Reference Method : ANSI Standard S1.6-1984

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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S:\Reports\Air Noise_Octave band.rpt (10:17AM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

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

P/O : 4512888340

Project Name : Environmental Quality Monitoring

Project Location : Polyol

Lot ID: 2242560

Date Received : May 12, 2022

Date Reported : May 21, 2022

Report Number : 2279694-2

Page 1 of 1

Sample Number 2242560-2
Parameter Octave Band
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Measurement Date May 12, 2022
Measurement By Sathapron Thakarnw

| 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 | 77.8 | 22.0 | 40.7 | 52.3 | 63.8 | 65.7 | 68.3 | 72.0 | 71.2 | 70.9 | 67.7 | 58.2 |
| 10:51 AM - 11:51 AM | 78.1 | 22.5 | 40.6 | 51.9 | 63.3 | 67.3 | 69.0 | 72.2 | 71.4 | 70.8 | 67.6 | 58.1 |
| 11:51 AM - 12:51 PM | 78.0 | 22.5 | 40.6 | 51.8 | 63.2 | 67.1 | 69.0 | 72.2 | 71.2 | 70.7 | 67.6 | 58.1 |
| 12:51 PM - 01:51 PM | 78.1 | 23.5 | 41.3 | 52.5 | 64.0 | 66.7 | 68.9 | 72.3 | 71.3 | 70.8 | 67.6 | 58.1 |
| 01:51 PM - 02:51 PM | 77.9 | 22.3 | 41.9 | 52.1 | 63.4 | 65.8 | 68.5 | 72.2 | 71.2 | 70.8 | 67.6 | 58.2 |
| 02:51 PM - 03:51 PM | 78.0 | 22.3 | 42.1 | 52.2 | 63.7 | 65.9 | 68.7 | 72.3 | 71.3 | 70.9 | 67.6 | 58.2 |
| 03:51 PM - 04:51 PM | 78.0 | 22.2 | 42.2 | 52.3 | 64.1 | 66.0 | 68.6 | 72.3 | 71.3 | 70.9 | 67.6 | 58.2 |
| 04:51 PM - 05:51 PM | 78.1 | 22.2 | 42.2 | 52.4 | 64.4 | 66.1 | 68.7 | 72.4 | 71.4 | 70.9 | 67.6 | 58.3 |
| Average | 78.0 | 22.5 | 41.5 | 52.2 | 63.8 | 66.4 | 68.7 | 72.2 | 71.3 | 70.8 | 67.6 | 58.2 |

Reference Method : ANSI Standard S1.6-1984

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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S:\Reports\Air Noise_Octave band.rpt (10:18AM)