

ภาคผนวกที่ 30

ผลการตรวจวัดคุณภาพสิ่งแวดล้อม

คุณภาพอากาศในบรรยากาศ



Request No. ATR6605002

Report No. 6605-0020 - 6605-0026

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE NAME : บริเวณชุมชนมาบข่า
RECEIVED DATE : 02/05/2023 SAMPLE NO. : A66050020 - A66050026
TESTED DATE : 02/05/2023-12/05/2023 REPORTED DATE : 13/05/2023

| PARAMETER* | TEST METHOD | SAMPLING DATE | RESULT | STD ¹⁾ | UNIT |
|---|--------------------|---------------|--------|-------------------|-------------------|
| Particulate matter less than or Equal 10 micrometers (PM 10) | Gravimetric Method | 18-19/04/2023 | 0.043 | 0.12 | mg/m ³ |
| | | 19-20/04/2023 | 0.048 | 0.12 | mg/m ³ |
| | | 20-21/04/2023 | 0.045 | 0.12 | mg/m ³ |
| | | 21-22/04/2023 | 0.037 | 0.12 | mg/m ³ |
| | | 22-23/04/2023 | 0.046 | 0.12 | mg/m ³ |
| | | 23-24/04/2023 | 0.034 | 0.12 | mg/m ³ |
| | | 24-25/04/2023 | 0.018 | 0.12 | mg/m ³ |

REMARK:

¹⁾ Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



Approved By

(Miss Thanatporn Klinsonop)

13/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No. LA66-R0506

Report No. R6605-0119 - R6605-0125

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดมาบข่า
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ
SAMPLE NO. : 07275-07281
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 18-19/04/2023 | 19-20/04/2023 | 20-21/04/2023 | UNIT |
|---|---------------|---------------|---------------|------|
| 10:00 - 11:00 ³⁾ | 0.002 | 0.002 | 0.002 | ppm |
| 11:00 - 12:00 | 0.002 | 0.002 | 0.002 | ppm |
| 12:00 - 13:00 | 0.002 | 0.002 | 0.002 | ppm |
| 13:00 - 14:00 | 0.002 | 0.002 | 0.002 | ppm |
| 14:00 - 15:00 | 0.002 | 0.002 | 0.002 | ppm |
| 15:00 - 16:00 | 0.002 | 0.002 | 0.002 | ppm |
| 16:00 - 17:00 | 0.002 | 0.002 | 0.002 | ppm |
| 17:00 - 18:00 | 0.002 | 0.002 | 0.002 | ppm |
| 18:00 - 19:00 | 0.002 | 0.002 | 0.002 | ppm |
| 19:00 - 20:00 | 0.002 | 0.002 | 0.002 | ppm |
| 20:00 - 21:00 | 0.002 | 0.002 | 0.002 | ppm |
| 21:00 - 22:00 | 0.002 | 0.002 | 0.002 | ppm |
| 22:00 - 23:00 | 0.002 | 0.002 | 0.002 | ppm |
| 23:00 - 00:00 | 0.002 | 0.002 | 0.002 | ppm |
| 00:00 - 01:00 | 0.002 | 0.002 | 0.002 | ppm |
| 01:00 - 02:00 | 0.002 | 0.002 | 0.002 | ppm |
| 02:00 - 03:00 | 0.002 | 0.002 | 0.002 | ppm |
| 03:00 - 04:00 | 0.002 | 0.002 | 0.002 | ppm |
| 04:00 - 05:00 | 0.002 | 0.002 | 0.002 | ppm |
| 05:00 - 06:00 | 0.002 | 0.002 | 0.002 | ppm |
| 06:00 - 07:00 | 0.002 | 0.002 | 0.002 | ppm |
| 07:00 - 08:00 | 0.002 | 0.002 | 0.002 | ppm |
| 08:00 - 09:00 | 0.002 | 0.002 | 0.002 | ppm |
| 09:00 - 10:00 | 0.002 | 0.002 | 0.002 | ppm |
| Maximum 1 hr. | 0.002 | 0.002 | 0.002 | ppm |
| Average 24 hr. | 0.002 | 0.002 | 0.002 | ppm |
| Standard (1 hr.) ¹⁾ | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ²⁾ | 0.12 | 0.12 | 0.12 | ppm |

REMARK :

¹⁾ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)

²⁾ Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

³⁾ Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Tummarat Photankhum)



Approved By

(MS. THANATPORN KLINSONOP)

05/05/2023

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บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 อ.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com



ACCREDITED LABORATORY
ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0119 - R6605-0125

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดมาบขลุ่ย
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ

SAMPLE NO. : 07275-07281
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 21-22/04/2023 | 22-23/04/2023 | 23-24/04/2023 | UNIT |
|---|---------------|---------------|---------------|------|
| 10:00 - 11:00 ¹⁾ | 0.002 | 0.002 | 0.002 | ppm |
| 11:00 - 12:00 | 0.002 | 0.002 | 0.002 | ppm |
| 12:00 - 13:00 | 0.002 | 0.002 | 0.002 | ppm |
| 13:00 - 14:00 | 0.002 | 0.002 | 0.002 | ppm |
| 14:00 - 15:00 | 0.002 | 0.002 | 0.002 | ppm |
| 15:00 - 16:00 | 0.002 | 0.002 | 0.002 | ppm |
| 16:00 - 17:00 | 0.002 | 0.002 | 0.002 | ppm |
| 17:00 - 18:00 | 0.002 | 0.002 | 0.002 | ppm |
| 18:00 - 19:00 | 0.002 | 0.002 | 0.002 | ppm |
| 19:00 - 20:00 | 0.002 | 0.002 | 0.002 | ppm |
| 20:00 - 21:00 | 0.002 | 0.002 | 0.002 | ppm |
| 21:00 - 22:00 | 0.002 | 0.002 | 0.002 | ppm |
| 22:00 - 23:00 | 0.002 | 0.002 | 0.002 | ppm |
| 23:00 - 00:00 | 0.002 | 0.002 | 0.002 | ppm |
| 00:00 - 01:00 | 0.002 | 0.002 | 0.002 | ppm |
| 01:00 - 02:00 | 0.002 | 0.002 | 0.002 | ppm |
| 02:00 - 03:00 | 0.002 | 0.002 | 0.002 | ppm |
| 03:00 - 04:00 | 0.002 | 0.002 | 0.002 | ppm |
| 04:00 - 05:00 | 0.002 | 0.002 | 0.002 | ppm |
| 05:00 - 06:00 | 0.002 | 0.002 | 0.002 | ppm |
| 06:00 - 07:00 | 0.002 | 0.002 | 0.002 | ppm |
| 07:00 - 08:00 | 0.002 | 0.002 | 0.002 | ppm |
| 08:00 - 09:00 | 0.002 | 0.002 | 0.002 | ppm |
| 09:00 - 10:00 | 0.002 | 0.002 | 0.002 | ppm |
| Maximum 1 hr. | 0.002 | 0.002 | 0.002 | ppm |
| Average 24 hr. | 0.002 | 0.002 | 0.002 | ppm |
| Standard (1 hr.) ¹⁾ | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ²⁾ | 0.12 | 0.12 | 0.12 | ppm |

REMARK : ¹⁾ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)

²⁾ Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

³⁾ Start Time

* Parameter Outside The Scope of The Measurement of The Department of Industrial Works
(Measurement By Mr. Tummarat Chaisriwong)



Approved By,

(MS. THANATPORN KLINSOPON)

05/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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683 หมู่ 11 อ.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
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ACCREDITED LABORATORY
ISO/IEC 17025

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Request No. LA66-R0506

Report No. R6605-0119 - R6605-0125

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดมาบขลุ่ย
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ

SAMPLE NO. : 07275-07281
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 24-25/04/2023 | UNIT |
|---|---------------|------|
| 10:00 - 11:00 ¹⁾ | 0.002 | ppm |
| 11:00 - 12:00 | 0.002 | ppm |
| 12:00 - 13:00 | 0.002 | ppm |
| 13:00 - 14:00 | 0.002 | ppm |
| 14:00 - 15:00 | 0.002 | ppm |
| 15:00 - 16:00 | 0.002 | ppm |
| 16:00 - 17:00 | 0.002 | ppm |
| 17:00 - 18:00 | 0.002 | ppm |
| 18:00 - 19:00 | 0.002 | ppm |
| 19:00 - 20:00 | 0.002 | ppm |
| 20:00 - 21:00 | 0.002 | ppm |
| 21:00 - 22:00 | 0.002 | ppm |
| 22:00 - 23:00 | 0.002 | ppm |
| 23:00 - 00:00 | 0.002 | ppm |
| 00:00 - 01:00 | 0.002 | ppm |
| 01:00 - 02:00 | 0.002 | ppm |
| 02:00 - 03:00 | 0.002 | ppm |
| 03:00 - 04:00 | 0.002 | ppm |
| 04:00 - 05:00 | 0.002 | ppm |
| 05:00 - 06:00 | 0.002 | ppm |
| 06:00 - 07:00 | 0.002 | ppm |
| 07:00 - 08:00 | 0.002 | ppm |
| 08:00 - 09:00 | 0.002 | ppm |
| 09:00 - 10:00 | 0.002 | ppm |
| Maximum 1 hr. | 0.002 | ppm |
| Average 24 hr. | 0.002 | ppm |
| Standard (1 hr.) ¹⁾ | 0.30 | ppm |
| Standard (Average 24 hr.) ²⁾ | 0.12 | ppm |

REMARK : ¹⁾ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)

²⁾ Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

³⁾ Start Time

* Parameter Outside The Scope of The Measurement of The Department of Industrial Works
(Measurement By Mr. Tummarat Chaisriwong)



Approved By,

(MS. THANATPORN KLINSOPON)

05/05/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0075 - R6605-0081

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A, Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : Horiba Model APNA-370 S/N XXSJ4FM

SAMPLE NO. : 07228-07234
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 18-19/04/2023 | 19-20/04/2023 | 20-21/04/2023 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 10:00 - 11:00 ² | 0.005 | 0.004 | 0.004 | ppm |
| 11:00 - 12:00 | 0.003 | 0.004 | 0.005 | ppm |
| 12:00 - 13:00 | 0.002 | 0.005 | 0.006 | ppm |
| 13:00 - 14:00 | 0.001 | 0.004 | 0.005 | ppm |
| 14:00 - 15:00 | 0.010 | 0.005 | 0.005 | ppm |
| 15:00 - 16:00 | 0.008 | 0.005 | 0.006 | ppm |
| 16:00 - 17:00 | 0.007 | 0.005 | 0.006 | ppm |
| 17:00 - 18:00 | 0.006 | 0.008 | 0.006 | ppm |
| 18:00 - 19:00 | 0.005 | 0.015 | 0.005 | ppm |
| 19:00 - 20:00 | 0.005 | 0.010 | 0.004 | ppm |
| 20:00 - 21:00 | 0.005 | 0.009 | 0.006 | ppm |
| 21:00 - 22:00 | 0.004 | 0.007 | 0.005 | ppm |
| 22:00 - 23:00 | 0.004 | 0.005 | 0.005 | ppm |
| 23:00 - 00:00 | 0.004 | 0.004 | 0.003 | ppm |
| 00:00 - 01:00 | 0.004 | 0.004 | 0.003 | ppm |
| 01:00 - 02:00 | 0.004 | 0.004 | 0.003 | ppm |
| 02:00 - 03:00 | 0.003 | 0.004 | 0.003 | ppm |
| 03:00 - 04:00 | 0.004 | 0.003 | 0.002 | ppm |
| 04:00 - 05:00 | 0.003 | 0.003 | 0.002 | ppm |
| 05:00 - 06:00 | 0.003 | 0.003 | 0.002 | ppm |
| 06:00 - 07:00 | 0.003 | 0.003 | 0.003 | ppm |
| 07:00 - 08:00 | 0.004 | 0.003 | 0.006 | ppm |
| 08:00 - 09:00 | 0.004 | 0.004 | 0.005 | ppm |
| 09:00 - 10:00 | 0.003 | 0.006 | 0.004 | ppm |
| Maximum 1 hr. | 0.010 | 0.015 | 0.006 | ppm |
| Average 24 hr. | 0.004 | 0.005 | 0.004 | ppm |
| Standard (1 hr.) ¹ | 0.17 | 0.17 | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummaru Phonakham)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0075 - R6605-0081

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A, Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : Horiba Model APNA-370 S/N XXSJ4FM

SAMPLE NO. : 07228-07234
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 21-22/04/2023 | 22-23/04/2023 | 23-24/04/2023 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 10:00 - 11:00 ² | 0.004 | 0.008 | 0.002 | ppm |
| 11:00 - 12:00 | 0.005 | 0.008 | 0.002 | ppm |
| 12:00 - 13:00 | 0.011 | 0.006 | 0.003 | ppm |
| 13:00 - 14:00 | 0.006 | 0.006 | 0.005 | ppm |
| 14:00 - 15:00 | 0.006 | 0.009 | 0.006 | ppm |
| 15:00 - 16:00 | 0.006 | 0.008 | 0.004 | ppm |
| 16:00 - 17:00 | 0.004 | 0.006 | 0.004 | ppm |
| 17:00 - 18:00 | 0.009 | 0.004 | 0.004 | ppm |
| 18:00 - 19:00 | 0.000 | 0.004 | 0.003 | ppm |
| 19:00 - 20:00 | 0.007 | 0.007 | 0.004 | ppm |
| 20:00 - 21:00 | 0.003 | 0.008 | 0.003 | ppm |
| 21:00 - 22:00 | 0.002 | 0.005 | 0.003 | ppm |
| 22:00 - 23:00 | 0.008 | 0.006 | 0.002 | ppm |
| 23:00 - 00:00 | 0.008 | 0.006 | 0.002 | ppm |
| 00:00 - 01:00 | 0.004 | 0.005 | 0.002 | ppm |
| 01:00 - 02:00 | 0.003 | 0.005 | 0.002 | ppm |
| 02:00 - 03:00 | 0.003 | 0.007 | 0.002 | ppm |
| 03:00 - 04:00 | 0.002 | 0.003 | 0.001 | ppm |
| 04:00 - 05:00 | 0.002 | 0.003 | 0.002 | ppm |
| 05:00 - 06:00 | 0.002 | 0.002 | 0.002 | ppm |
| 06:00 - 07:00 | 0.002 | 0.002 | 0.003 | ppm |
| 07:00 - 08:00 | 0.004 | 0.005 | 0.006 | ppm |
| 08:00 - 09:00 | 0.005 | 0.002 | 0.006 | ppm |
| 09:00 - 10:00 | 0.004 | 0.002 | 0.004 | ppm |
| Maximum 1 hr. | 0.011 | 0.009 | 0.006 | ppm |
| Average 24 hr. | 0.004 | 0.005 | 0.003 | ppm |
| Standard (1 hr.) ¹ | 0.17 | 0.17 | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummaru Phonakham)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0506

Report No. R6605-0075 - R6605-0081

TEST REPORT

| | | | |
|----------------------|--|---------------|---------------|
| CUSTOMER | NPC Safety and Environmental Service Co., Ltd. | | |
| ADDRESS | 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150 | | |
| SAMPLE SOURCE | PTT Asahi Chemical Co., Ltd. | | |
| SAMPLE POINT | วัดมบขลุ | SAMPLE NO. | 07228-07234 |
| PARAMETER* | Nitrogen Dioxide | SAMPLING DATE | 18-25/04/2023 |
| DETERMINATION METHOD | Chemiluminescence | RECEIVED DATE | 25/04/2023 |
| INSTRUMENT | Horiba Model APNA-370 S/N XXSSJ4FM | REPORTED DATE | 05/05/2023 |

| TIME / DATE | 24-25/04/2023 | UNIT |
|-------------------------------|---------------|------|
| 10:00 - 11:00 ² | 0.005 | ppm |
| 11:00 - 12:00 | 0.005 | ppm |
| 12:00 - 13:00 | 0.007 | ppm |
| 13:00 - 14:00 | 0.004 | ppm |
| 14:00 - 15:00 | 0.004 | ppm |
| 15:00 - 16:00 | 0.004 | ppm |
| 16:00 - 17:00 | 0.004 | ppm |
| 17:00 - 18:00 | 0.005 | ppm |
| 18:00 - 19:00 | 0.005 | ppm |
| 19:00 - 20:00 | 0.006 | ppm |
| 20:00 - 21:00 | 0.009 | ppm |
| 21:00 - 22:00 | 0.006 | ppm |
| 22:00 - 23:00 | 0.005 | ppm |
| 23:00 - 00:00 | 0.004 | ppm |
| 00:00 - 01:00 | 0.005 | ppm |
| 01:00 - 02:00 | 0.007 | ppm |
| 02:00 - 03:00 | 0.009 | ppm |
| 03:00 - 04:00 | 0.006 | ppm |
| 04:00 - 05:00 | 0.004 | ppm |
| 05:00 - 06:00 | 0.007 | ppm |
| 06:00 - 07:00 | 0.004 | ppm |
| 07:00 - 08:00 | 0.009 | ppm |
| 08:00 - 09:00 | 0.002 | ppm |
| 09:00 - 10:00 | 0.004 | ppm |
| Maximum 1 hr. | 0.009 | ppm |
| Average 24 hr. | 0.005 | ppm |
| Standard (1 hr.) ¹ | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Photankhum)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

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Request No. ATR6605002

Report No. 6605-0013 - 6605-0019

TEST REPORT

| | | | |
|---------------|--|---------------|-----------------------|
| CUSTOMER | NPC Safety and Environmental Service Co., Ltd. | | |
| ADDRESS | 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150 | | |
| SAMPLE SOURCE | PTT Asahi Chemical Co., Ltd. | | |
| SAMPLE NAME | บริเวณชุมชนหนองแฟบ | | |
| RECEIVED DATE | 02/05/2023 | SAMPLE NO. | A66050013 - A66050019 |
| TESTED DATE | 02/05/2023-12/05/2023 | REPORTED DATE | 13/05/2023 |

| PARAMETER* | TEST METHOD | SAMPLING DATE | RESULT | STD ¹ | UNIT |
|---------------------------------------|--------------------|---------------|--------|------------------|-------------------|
| Particulate matter less than or Equal | | | | | |
| 10 micrometers (PM 10) | Gravimetric Method | 18-19/04/2023 | 0.063 | 0.12 | mg/m ³ |
| | | 19-20/04/2023 | 0.076 | 0.12 | mg/m ³ |
| | | 20-21/04/2023 | 0.040 | 0.12 | mg/m ³ |
| | | 21-22/04/2023 | 0.066 | 0.12 | mg/m ³ |
| | | 22-23/04/2023 | 0.090 | 0.12 | mg/m ³ |
| | | 23-24/04/2023 | 0.054 | 0.12 | mg/m ³ |
| | | 24-25/04/2023 | 0.030 | 0.12 | mg/m ³ |

REMARK:

¹ Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.
(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By ...

(Miss Thanatporn Klinsopon)

13/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 ต.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0126 - R6605-0132

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดหนองเพน
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 6457

SAMPLE NO. : 07282-07288
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 18-19/04/2023 | 19-20/04/2023 | 20-21/04/2023 | UNIT |
|--|---------------|---------------|---------------|------|
| 10:00 - 11:00 ¹ | 0.004 | 0.003 | 0.003 | ppm |
| 11:00 - 12:00 | 0.004 | 0.003 | 0.004 | ppm |
| 12:00 - 13:00 | 0.005 | 0.003 | 0.004 | ppm |
| 13:00 - 14:00 | 0.003 | 0.003 | 0.004 | ppm |
| 14:00 - 15:00 | 0.003 | 0.003 | 0.004 | ppm |
| 15:00 - 16:00 | 0.003 | 0.003 | 0.005 | ppm |
| 16:00 - 17:00 | 0.003 | 0.003 | 0.002 | ppm |
| 17:00 - 18:00 | 0.003 | 0.003 | 0.003 | ppm |
| 18:00 - 19:00 | 0.003 | 0.003 | 0.003 | ppm |
| 19:00 - 20:00 | 0.003 | 0.003 | 0.003 | ppm |
| 20:00 - 21:00 | 0.003 | 0.003 | 0.003 | ppm |
| 21:00 - 22:00 | 0.003 | 0.003 | 0.003 | ppm |
| 22:00 - 23:00 | 0.003 | 0.003 | 0.003 | ppm |
| 23:00 - 00:00 | 0.002 | 0.003 | 0.003 | ppm |
| 00:00 - 01:00 | 0.003 | 0.003 | 0.003 | ppm |
| 01:00 - 02:00 | 0.003 | 0.003 | 0.003 | ppm |
| 02:00 - 03:00 | 0.003 | 0.003 | 0.003 | ppm |
| 03:00 - 04:00 | 0.003 | 0.003 | 0.003 | ppm |
| 04:00 - 05:00 | 0.003 | 0.003 | 0.003 | ppm |
| 05:00 - 06:00 | 0.003 | 0.003 | 0.003 | ppm |
| 06:00 - 07:00 | 0.003 | 0.003 | 0.003 | ppm |
| 07:00 - 08:00 | 0.003 | 0.003 | 0.003 | ppm |
| 08:00 - 09:00 | 0.003 | 0.003 | 0.003 | ppm |
| 09:00 - 10:00 | 0.003 | 0.003 | 0.003 | ppm |
| Maximum 1 hr. | 0.005 | 0.003 | 0.005 | ppm |
| Average 24 hr. | 0.003 | 0.003 | 0.003 | ppm |
| Standard (1 hr.) ¹ | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ² | 0.12 | 0.12 | 0.12 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Notification of The Department of Industrial Works
(Measurement By Mr. Tummarat Vithakarn)

Approved By.....

(MS. THANATPORN KLINSOPON)

05/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 ต.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0126 - R6605-0132

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดหนองเพน
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 6457

SAMPLE NO. : 07282-07288
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 21-22/04/2023 | 22-23/04/2023 | 23-24/04/2023 | UNIT |
|--|---------------|---------------|---------------|------|
| 10:00 - 11:00 ¹ | 0.003 | 0.003 | 0.003 | ppm |
| 11:00 - 12:00 | 0.003 | 0.003 | 0.003 | ppm |
| 12:00 - 13:00 | 0.003 | 0.003 | 0.003 | ppm |
| 13:00 - 14:00 | 0.003 | 0.003 | 0.003 | ppm |
| 14:00 - 15:00 | 0.003 | 0.003 | 0.003 | ppm |
| 15:00 - 16:00 | 0.003 | 0.003 | 0.003 | ppm |
| 16:00 - 17:00 | 0.003 | 0.003 | 0.003 | ppm |
| 17:00 - 18:00 | 0.003 | 0.003 | 0.003 | ppm |
| 18:00 - 19:00 | 0.003 | 0.003 | 0.003 | ppm |
| 19:00 - 20:00 | 0.003 | 0.003 | 0.003 | ppm |
| 20:00 - 21:00 | 0.003 | 0.003 | 0.003 | ppm |
| 21:00 - 22:00 | 0.003 | 0.003 | 0.003 | ppm |
| 22:00 - 23:00 | 0.003 | 0.003 | 0.003 | ppm |
| 23:00 - 00:00 | 0.003 | 0.003 | 0.003 | ppm |
| 00:00 - 01:00 | 0.003 | 0.003 | 0.003 | ppm |
| 01:00 - 02:00 | 0.003 | 0.003 | 0.003 | ppm |
| 02:00 - 03:00 | 0.003 | 0.003 | 0.003 | ppm |
| 03:00 - 04:00 | 0.003 | 0.003 | 0.003 | ppm |
| 04:00 - 05:00 | 0.003 | 0.003 | 0.003 | ppm |
| 05:00 - 06:00 | 0.003 | 0.003 | 0.003 | ppm |
| 06:00 - 07:00 | 0.003 | 0.003 | 0.003 | ppm |
| 07:00 - 08:00 | 0.003 | 0.003 | 0.003 | ppm |
| 08:00 - 09:00 | 0.003 | 0.003 | 0.003 | ppm |
| 09:00 - 10:00 | 0.003 | 0.003 | 0.003 | ppm |
| Maximum 1 hr. | 0.003 | 0.003 | 0.003 | ppm |
| Average 24 hr. | 0.003 | 0.003 | 0.003 | ppm |
| Standard (1 hr.) ¹ | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ² | 0.12 | 0.12 | 0.12 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Notification of The Department of Industrial Works
(Measurement By Mr. Tummarat Vithakarn)

Approved By.....

(MS. THANATPORN KLINSOPON)

05/05/2023

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เว็บไซต์ : http://www.etc1992.com อีเมล : info@etc1992.com



ACCREDITED LABORATORY
ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0126 - R6605-0132

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดหนองเพน
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 6457

SAMPLE NO. : 07282-07288
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 24-25/04/2023 | UNIT |
|--|---------------|------|
| 10:00 - 11:00 ¹ | 0.004 | ppm |
| 11:00 - 12:00 | 0.004 | ppm |
| 12:00 - 13:00 | 0.003 | ppm |
| 13:00 - 14:00 | 0.003 | ppm |
| 14:00 - 15:00 | 0.004 | ppm |
| 15:00 - 16:00 | 0.004 | ppm |
| 16:00 - 17:00 | 0.004 | ppm |
| 17:00 - 18:00 | 0.004 | ppm |
| 18:00 - 19:00 | 0.003 | ppm |
| 19:00 - 20:00 | 0.003 | ppm |
| 20:00 - 21:00 | 0.003 | ppm |
| 21:00 - 22:00 | 0.003 | ppm |
| 22:00 - 23:00 | 0.003 | ppm |
| 23:00 - 00:00 | 0.003 | ppm |
| 00:00 - 01:00 | 0.003 | ppm |
| 01:00 - 02:00 | 0.003 | ppm |
| 02:00 - 03:00 | 0.003 | ppm |
| 03:00 - 04:00 | 0.003 | ppm |
| 04:00 - 05:00 | 0.003 | ppm |
| 05:00 - 06:00 | 0.003 | ppm |
| 06:00 - 07:00 | 0.003 | ppm |
| 07:00 - 08:00 | 0.003 | ppm |
| 08:00 - 09:00 | 0.003 | ppm |
| 09:00 - 10:00 | 0.003 | ppm |
| Maximum 1 hr. | 0.004 | ppm |
| Average 24 hr. | 0.003 | ppm |
| Standard (1 hr.) ¹ | 0.30 | ppm |
| Standard (Average 24 hr.) ² | 0.12 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)

² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

³ Start Time

* Parameter Outside The Scope of The Regulation of The Department of Industrial Works
(Measurement By Mr. Tummaru Bhasawimol)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

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บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

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ACCREDITED LABORATORY
ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0082 - R6605-0088

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดหนองเพน
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7355

SAMPLE NO. : 07235-07241
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 18-19/04/2023 | 19-20/04/2023 | 20-21/04/2023 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 10:00 - 11:00 ² | 0.003 | 0.003 | 0.005 | ppm |
| 11:00 - 12:00 | 0.004 | 0.004 | 0.004 | ppm |
| 12:00 - 13:00 | 0.003 | 0.003 | 0.005 | ppm |
| 13:00 - 14:00 | 0.003 | 0.004 | 0.004 | ppm |
| 14:00 - 15:00 | 0.003 | 0.003 | 0.008 | ppm |
| 15:00 - 16:00 | 0.003 | 0.003 | 0.009 | ppm |
| 16:00 - 17:00 | 0.003 | 0.003 | 0.010 | ppm |
| 17:00 - 18:00 | 0.005 | 0.005 | 0.005 | ppm |
| 18:00 - 19:00 | 0.005 | 0.007 | 0.004 | ppm |
| 19:00 - 20:00 | 0.004 | 0.005 | 0.003 | ppm |
| 20:00 - 21:00 | 0.003 | 0.004 | 0.002 | ppm |
| 21:00 - 22:00 | 0.002 | 0.003 | 0.003 | ppm |
| 22:00 - 23:00 | 0.002 | 0.002 | 0.003 | ppm |
| 23:00 - 00:00 | 0.002 | 0.002 | 0.003 | ppm |
| 00:00 - 01:00 | 0.002 | 0.002 | 0.002 | ppm |
| 01:00 - 02:00 | 0.002 | 0.002 | 0.002 | ppm |
| 02:00 - 03:00 | 0.002 | 0.002 | 0.002 | ppm |
| 03:00 - 04:00 | 0.002 | 0.002 | 0.004 | ppm |
| 04:00 - 05:00 | 0.002 | 0.002 | 0.005 | ppm |
| 05:00 - 06:00 | 0.002 | 0.002 | 0.006 | ppm |
| 06:00 - 07:00 | 0.002 | 0.003 | 0.004 | ppm |
| 07:00 - 08:00 | 0.006 | 0.006 | 0.005 | ppm |
| 08:00 - 09:00 | 0.008 | 0.007 | 0.005 | ppm |
| 09:00 - 10:00 | 0.004 | 0.006 | 0.006 | ppm |
| Maximum 1 hr. | 0.008 | 0.007 | 0.010 | ppm |
| Average 24 hr. | 0.003 | 0.004 | 0.004 | ppm |
| Standard (1 hr.) ¹ | 0.17 | 0.17 | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Regulation of The Department of Industrial Works
(Measurement By Mr. Tummaru Bhasawimol)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0506

Report No. R6605-0082 - R6605-0088

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดหนองเพย
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7355

SAMPLE NO. : 07235-07241
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 21-22/04/2023 | 22-23/04/2023 | 23-24/04/2023 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 10:00 - 11:00 ² | 0.005 | 0.003 | 0.003 | ppm |
| 11:00 - 12:00 | 0.004 | 0.003 | 0.004 | ppm |
| 12:00 - 13:00 | 0.005 | 0.002 | 0.004 | ppm |
| 13:00 - 14:00 | 0.005 | 0.003 | 0.004 | ppm |
| 14:00 - 15:00 | 0.005 | 0.003 | 0.003 | ppm |
| 15:00 - 16:00 | 0.005 | 0.003 | 0.004 | ppm |
| 16:00 - 17:00 | 0.006 | 0.003 | 0.004 | ppm |
| 17:00 - 18:00 | 0.003 | 0.003 | 0.003 | ppm |
| 18:00 - 19:00 | 0.003 | 0.003 | 0.005 | ppm |
| 19:00 - 20:00 | 0.004 | 0.002 | 0.004 | ppm |
| 20:00 - 21:00 | 0.003 | 0.002 | 0.003 | ppm |
| 21:00 - 22:00 | 0.002 | 0.002 | 0.003 | ppm |
| 22:00 - 23:00 | 0.002 | 0.002 | 0.003 | ppm |
| 23:00 - 00:00 | 0.002 | 0.002 | 0.003 | ppm |
| 00:00 - 01:00 | 0.002 | 0.002 | 0.005 | ppm |
| 01:00 - 02:00 | 0.003 | 0.002 | 0.004 | ppm |
| 02:00 - 03:00 | 0.002 | 0.003 | 0.005 | ppm |
| 03:00 - 04:00 | 0.002 | 0.004 | 0.004 | ppm |
| 04:00 - 05:00 | 0.003 | 0.006 | 0.010 | ppm |
| 05:00 - 06:00 | 0.003 | 0.009 | 0.009 | ppm |
| 06:00 - 07:00 | 0.003 | 0.007 | 0.003 | ppm |
| 07:00 - 08:00 | 0.002 | 0.004 | 0.003 | ppm |
| 08:00 - 09:00 | 0.002 | 0.004 | 0.003 | ppm |
| 09:00 - 10:00 | 0.003 | 0.004 | 0.003 | ppm |
| Maximum 1 hr. | 0.006 | 0.009 | 0.010 | ppm |
| Average 24 hr. | 0.003 | 0.003 | 0.004 | ppm |
| Standard (1 hr.) ¹ | 0.17 | 0.17 | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phrasanvithana)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA66-R0506

Report No. R6605-0082 - R6605-0088

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดหนองเพย
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7355

SAMPLE NO. : 07235-07241
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 24-25/04/2023 | UNIT |
|-------------------------------|---------------|------|
| 10:00 - 11:00 ² | 0.003 | ppm |
| 11:00 - 12:00 | 0.004 | ppm |
| 12:00 - 13:00 | 0.003 | ppm |
| 13:00 - 14:00 | 0.003 | ppm |
| 14:00 - 15:00 | 0.003 | ppm |
| 15:00 - 16:00 | 0.004 | ppm |
| 16:00 - 17:00 | 0.004 | ppm |
| 17:00 - 18:00 | 0.004 | ppm |
| 18:00 - 19:00 | 0.003 | ppm |
| 19:00 - 20:00 | 0.004 | ppm |
| 20:00 - 21:00 | 0.003 | ppm |
| 21:00 - 22:00 | 0.003 | ppm |
| 22:00 - 23:00 | 0.003 | ppm |
| 23:00 - 00:00 | 0.003 | ppm |
| 00:00 - 01:00 | 0.002 | ppm |
| 01:00 - 02:00 | 0.003 | ppm |
| 02:00 - 03:00 | 0.003 | ppm |
| 03:00 - 04:00 | 0.002 | ppm |
| 04:00 - 05:00 | 0.003 | ppm |
| 05:00 - 06:00 | 0.004 | ppm |
| 06:00 - 07:00 | 0.003 | ppm |
| 07:00 - 08:00 | 0.003 | ppm |
| 08:00 - 09:00 | 0.003 | ppm |
| 09:00 - 10:00 | 0.004 | ppm |
| Maximum 1 hr. | 0.004 | ppm |
| Average 24 hr. | 0.003 | ppm |
| Standard (1 hr.) ¹ | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phrasanvithana)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. ATR6605002
Report No. 6605-0027 - 6605-0033

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE NAME : บริเวณชุมชนจากลูกเหว้า
RECEIVED DATE : 02/05/2023 SAMPLE NO. : A66050027 - A66050033
TESTED DATE : 02/05/2023-12/05/2023 REPORTED DATE : 13/05/2023

| PARAMETER* | TEST METHOD | SAMPLING DATE | RESULT | STD ^{1/} | UNIT |
|---------------------------------------|--------------------|---------------|--------|-------------------|-------------------|
| Particulate matter less than or Equal | | | | | |
| 10 micrometers (PM 10) | Gravimetric Method | 18-19/04/2023 | 0.064 | 0.12 | mg/m ³ |
| | | 19-20/04/2023 | 0.100 | 0.12 | mg/m ³ |
| | | 20-21/04/2023 | 0.091 | 0.12 | mg/m ³ |
| | | 21-22/04/2023 | 0.104 | 0.12 | mg/m ³ |
| | | 22-23/04/2023 | 0.100 | 0.12 | mg/m ³ |
| | | 23-24/04/2023 | 0.057 | 0.12 | mg/m ³ |
| | | 24-25/04/2023 | 0.063 | 0.12 | mg/m ³ |

REMARK: ^{1/} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.
* Parameter Outside The Scope of The Registration of The Department of Industrial Works.
(Sampling By Mr. Tummarat Photankhum)



Approved By (Miss Thanatporn Klinsonop)
13/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No. LA66-R0506
Report No. R6605-0112 - R6605-0118

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดจากลูกเหว้า
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 3139
SAMPLE NO. : 07268-07274
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 18-19/04/2023 | 19-20/04/2023 | 20-21/04/2023 | UNIT |
|---|---------------|---------------|---------------|------|
| 11:00 - 12:00 ^{1/} | 0.008 | 0.005 | 0.005 | ppm |
| 12:00 - 13:00 | 0.007 | 0.004 | 0.005 | ppm |
| 13:00 - 14:00 | 0.005 | 0.002 | 0.003 | ppm |
| 14:00 - 15:00 | 0.007 | 0.005 | 0.005 | ppm |
| 15:00 - 16:00 | 0.006 | 0.003 | 0.004 | ppm |
| 16:00 - 17:00 | 0.003 | 0.003 | 0.003 | ppm |
| 17:00 - 18:00 | 0.009 | 0.005 | 0.003 | ppm |
| 18:00 - 19:00 | 0.003 | 0.004 | 0.005 | ppm |
| 19:00 - 20:00 | 0.008 | 0.007 | 0.004 | ppm |
| 20:00 - 21:00 | 0.009 | 0.008 | 0.004 | ppm |
| 21:00 - 22:00 | 0.009 | 0.005 | 0.004 | ppm |
| 22:00 - 23:00 | 0.007 | 0.004 | 0.003 | ppm |
| 23:00 - 00:00 | 0.007 | 0.005 | 0.001 | ppm |
| 00:00 - 01:00 | 0.006 | 0.005 | 0.001 | ppm |
| 01:00 - 02:00 | 0.008 | 0.004 | 0.001 | ppm |
| 02:00 - 03:00 | 0.008 | 0.004 | 0.002 | ppm |
| 03:00 - 04:00 | 0.007 | 0.005 | 0.001 | ppm |
| 04:00 - 05:00 | 0.006 | 0.003 | 0.002 | ppm |
| 05:00 - 06:00 | 0.006 | 0.004 | 0.003 | ppm |
| 06:00 - 07:00 | 0.006 | 0.006 | 0.004 | ppm |
| 07:00 - 08:00 | 0.008 | 0.006 | 0.006 | ppm |
| 08:00 - 09:00 | 0.008 | 0.007 | 0.005 | ppm |
| 09:00 - 10:00 | 0.006 | 0.003 | 0.004 | ppm |
| 10:00 - 11:00 | 0.006 | 0.004 | 0.003 | ppm |
| Maximum 1 hr. | 0.009 | 0.008 | 0.006 | ppm |
| Average 24 hr. | 0.007 | 0.005 | 0.003 | ppm |
| Standard (1 hr.) ^{1/} | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ^{2/} | 0.12 | 0.12 | 0.12 | ppm |

REMARK: ^{1/} Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)
^{2/} Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)
^{3/} Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Photankhum)



Approved By (MS. THANATPORN KLINSOPON)
05/05/2023

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บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 ต.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0112 - R6605-0118

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดจากลูกหลุม
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 3139

SAMPLE NO. : 07268-07274
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 21-22/04/2023 | 22-23/04/2023 | 23-24/04/2023 | UNIT |
|---|---------------|---------------|---------------|------|
| 11:00 - 12:00 ¹⁾ | 0.003 | 0.003 | 0.004 | ppm |
| 12:00 - 13:00 | 0.003 | 0.002 | 0.002 | ppm |
| 13:00 - 14:00 | 0.002 | 0.003 | 0.003 | ppm |
| 14:00 - 15:00 | 0.003 | 0.006 | 0.008 | ppm |
| 15:00 - 16:00 | 0.002 | 0.009 | 0.007 | ppm |
| 16:00 - 17:00 | 0.003 | 0.004 | 0.007 | ppm |
| 17:00 - 18:00 | 0.001 | 0.001 | 0.007 | ppm |
| 18:00 - 19:00 | 0.002 | 0.004 | 0.006 | ppm |
| 19:00 - 20:00 | 0.004 | 0.005 | 0.006 | ppm |
| 20:00 - 21:00 | 0.003 | 0.002 | 0.006 | ppm |
| 21:00 - 22:00 | 0.002 | 0.001 | 0.006 | ppm |
| 22:00 - 23:00 | 0.002 | 0.001 | 0.005 | ppm |
| 23:00 - 00:00 | 0.003 | 0.001 | 0.004 | ppm |
| 00:00 - 01:00 | 0.001 | 0.001 | 0.002 | ppm |
| 01:00 - 02:00 | 0.003 | 0.002 | 0.002 | ppm |
| 02:00 - 03:00 | 0.002 | 0.002 | 0.002 | ppm |
| 03:00 - 04:00 | 0.002 | 0.005 | 0.003 | ppm |
| 04:00 - 05:00 | 0.001 | 0.002 | 0.004 | ppm |
| 05:00 - 06:00 | 0.001 | 0.002 | 0.002 | ppm |
| 06:00 - 07:00 | 0.002 | 0.004 | 0.002 | ppm |
| 07:00 - 08:00 | 0.001 | 0.005 | 0.003 | ppm |
| 08:00 - 09:00 | 0.001 | 0.004 | 0.004 | ppm |
| 09:00 - 10:00 | 0.002 | 0.003 | 0.002 | ppm |
| 10:00 - 11:00 | 0.003 | 0.002 | 0.003 | ppm |
| Maximum 1 hr. | 0.004 | 0.009 | 0.008 | ppm |
| Average 24 hr. | 0.002 | 0.003 | 0.004 | ppm |
| Standard (1 hr.) ¹⁾ | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ²⁾ | 0.12 | 0.12 | 0.12 | ppm |

REMARK : ¹⁾ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)

²⁾ Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

³⁾ Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Pongkanyong)



Approved By

(MS. THANATPORN KLINSOPON)

05/05/2023

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บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 ต.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com



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683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0112 - R6605-0118

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดจากลูกหลุม
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 3139

SAMPLE NO. : 07268-07274
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 24-25/04/2023 | UNIT |
|---|---------------|------|
| 11:00 - 12:00 ¹⁾ | 0.004 | ppm |
| 12:00 - 13:00 | 0.002 | ppm |
| 13:00 - 14:00 | 0.002 | ppm |
| 14:00 - 15:00 | 0.003 | ppm |
| 15:00 - 16:00 | 0.005 | ppm |
| 16:00 - 17:00 | 0.005 | ppm |
| 17:00 - 18:00 | 0.004 | ppm |
| 18:00 - 19:00 | 0.002 | ppm |
| 19:00 - 20:00 | 0.005 | ppm |
| 20:00 - 21:00 | 0.003 | ppm |
| 21:00 - 22:00 | 0.002 | ppm |
| 22:00 - 23:00 | 0.004 | ppm |
| 23:00 - 00:00 | 0.003 | ppm |
| 00:00 - 01:00 | 0.002 | ppm |
| 01:00 - 02:00 | 0.001 | ppm |
| 02:00 - 03:00 | 0.005 | ppm |
| 03:00 - 04:00 | 0.003 | ppm |
| 04:00 - 05:00 | 0.004 | ppm |
| 05:00 - 06:00 | 0.008 | ppm |
| 06:00 - 07:00 | 0.007 | ppm |
| 07:00 - 08:00 | 0.006 | ppm |
| 08:00 - 09:00 | 0.006 | ppm |
| 09:00 - 10:00 | 0.004 | ppm |
| 10:00 - 11:00 | 0.004 | ppm |
| Maximum 1 hr. | 0.008 | ppm |
| Average 24 hr. | 0.004 | ppm |
| Standard (1 hr.) ¹⁾ | 0.30 | ppm |
| Standard (Average 24 hr.) ²⁾ | 0.12 | ppm |

REMARK : ¹⁾ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)

²⁾ Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

³⁾ Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Pongkanyong)



Approved By

(MS. THANATPORN KLINSOPON)

05/05/2023

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Request No. LA66-R0506

Report No. R6605-0068 - R6605-0074

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดจากลูกหย้า
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 07221-07227
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 18-19/04/2023 | 19-20/04/2023 | 20-21/04/2023 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 11:00 - 12:00 ² | 0.004 | 0.006 | 0.006 | ppm |
| 12:00 - 13:00 | 0.013 | 0.005 | 0.005 | ppm |
| 13:00 - 14:00 | 0.004 | 0.005 | 0.006 | ppm |
| 14:00 - 15:00 | 0.007 | 0.006 | 0.007 | ppm |
| 15:00 - 16:00 | 0.006 | 0.005 | 0.007 | ppm |
| 16:00 - 17:00 | 0.005 | 0.006 | 0.007 | ppm |
| 17:00 - 18:00 | 0.006 | 0.011 | 0.009 | ppm |
| 18:00 - 19:00 | 0.004 | 0.013 | 0.015 | ppm |
| 19:00 - 20:00 | 0.007 | 0.020 | 0.013 | ppm |
| 20:00 - 21:00 | 0.007 | 0.023 | 0.010 | ppm |
| 21:00 - 22:00 | 0.005 | 0.017 | 0.012 | ppm |
| 22:00 - 23:00 | 0.005 | 0.009 | 0.007 | ppm |
| 23:00 - 00:00 | 0.014 | 0.013 | 0.005 | ppm |
| 00:00 - 01:00 | 0.004 | 0.014 | 0.004 | ppm |
| 01:00 - 02:00 | 0.013 | 0.013 | 0.006 | ppm |
| 02:00 - 03:00 | 0.012 | 0.012 | 0.013 | ppm |
| 03:00 - 04:00 | 0.013 | 0.012 | 0.009 | ppm |
| 04:00 - 05:00 | 0.013 | 0.012 | 0.012 | ppm |
| 05:00 - 06:00 | 0.013 | 0.012 | 0.006 | ppm |
| 06:00 - 07:00 | 0.009 | 0.016 | 0.009 | ppm |
| 07:00 - 08:00 | 0.014 | 0.011 | 0.011 | ppm |
| 08:00 - 09:00 | 0.016 | 0.012 | 0.011 | ppm |
| 09:00 - 10:00 | 0.010 | 0.010 | 0.010 | ppm |
| 10:00 - 11:00 | 0.007 | 0.005 | 0.008 | ppm |
| Maximum 1 hr. | 0.016 | 0.023 | 0.015 | ppm |
| Average 24 hr. | 0.009 | 0.011 | 0.009 | ppm |
| Standard (1 hr.) ¹ | 0.17 | 0.17 | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Potanatum)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

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Request No. LA66-R0506

Report No. R6605-0068 - R6605-0074

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดจากลูกหย้า
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 07221-07227
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 21-22/04/2023 | 22-23/04/2023 | 23-24/04/2023 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 11:00 - 12:00 ² | 0.015 | 0.009 | 0.005 | ppm |
| 12:00 - 13:00 | 0.014 | 0.013 | 0.005 | ppm |
| 13:00 - 14:00 | 0.008 | 0.013 | 0.005 | ppm |
| 14:00 - 15:00 | 0.007 | 0.021 | 0.007 | ppm |
| 15:00 - 16:00 | 0.008 | 0.022 | 0.005 | ppm |
| 16:00 - 17:00 | 0.009 | 0.011 | 0.005 | ppm |
| 17:00 - 18:00 | 0.010 | 0.014 | 0.006 | ppm |
| 18:00 - 19:00 | 0.021 | 0.026 | 0.008 | ppm |
| 19:00 - 20:00 | 0.030 | 0.025 | 0.010 | ppm |
| 20:00 - 21:00 | 0.022 | 0.016 | 0.006 | ppm |
| 21:00 - 22:00 | 0.027 | 0.013 | 0.007 | ppm |
| 22:00 - 23:00 | 0.020 | 0.011 | 0.009 | ppm |
| 23:00 - 00:00 | 0.015 | 0.009 | 0.009 | ppm |
| 00:00 - 01:00 | 0.011 | 0.016 | 0.013 | ppm |
| 01:00 - 02:00 | 0.014 | 0.007 | 0.013 | ppm |
| 02:00 - 03:00 | 0.013 | 0.016 | 0.009 | ppm |
| 03:00 - 04:00 | 0.013 | 0.014 | 0.013 | ppm |
| 04:00 - 05:00 | 0.013 | 0.008 | 0.014 | ppm |
| 05:00 - 06:00 | 0.012 | 0.005 | 0.006 | ppm |
| 06:00 - 07:00 | 0.014 | 0.005 | 0.009 | ppm |
| 07:00 - 08:00 | 0.017 | 0.005 | 0.009 | ppm |
| 08:00 - 09:00 | 0.009 | 0.005 | 0.008 | ppm |
| 09:00 - 10:00 | 0.009 | 0.005 | 0.007 | ppm |
| 10:00 - 11:00 | 0.011 | 0.005 | 0.009 | ppm |
| Maximum 1 hr. | 0.030 | 0.026 | 0.014 | ppm |
| Average 24 hr. | 0.014 | 0.012 | 0.008 | ppm |
| Standard (1 hr.) ¹ | 0.17 | 0.17 | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Potanatum)



Approved By...

(MS. THANATPORN KLINSOPON)

05/05/2023

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บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 ต.สุขาภิบาล 8 ต.หนองจาง อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อีเมล : info@etc1992.com



ACCREDITED LABORATORY
ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0506

Report No. R6605-0068 - R6605-0074

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : วัดซากลูกหนู
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 07221-07227
SAMPLING DATE : 18-25/04/2023
RECEIVED DATE : 25/04/2023
REPORTED DATE : 05/05/2023

| TIME / DATE | 24-25/04/2023 | UNIT |
|-------------------------------|---------------|------|
| 11:00 - 12:00 ² | 0.010 | ppm |
| 12:00 - 13:00 | 0.010 | ppm |
| 13:00 - 14:00 | 0.007 | ppm |
| 14:00 - 15:00 | 0.010 | ppm |
| 15:00 - 16:00 | 0.008 | ppm |
| 16:00 - 17:00 | 0.010 | ppm |
| 17:00 - 18:00 | 0.009 | ppm |
| 18:00 - 19:00 | 0.007 | ppm |
| 19:00 - 20:00 | 0.021 | ppm |
| 20:00 - 21:00 | 0.021 | ppm |
| 21:00 - 22:00 | 0.020 | ppm |
| 22:00 - 23:00 | 0.018 | ppm |
| 23:00 - 00:00 | 0.018 | ppm |
| 00:00 - 01:00 | 0.016 | ppm |
| 01:00 - 02:00 | 0.014 | ppm |
| 02:00 - 03:00 | 0.012 | ppm |
| 03:00 - 04:00 | 0.010 | ppm |
| 04:00 - 05:00 | 0.009 | ppm |
| 05:00 - 06:00 | 0.010 | ppm |
| 06:00 - 07:00 | 0.010 | ppm |
| 07:00 - 08:00 | 0.010 | ppm |
| 08:00 - 09:00 | 0.012 | ppm |
| 09:00 - 10:00 | 0.014 | ppm |
| 10:00 - 11:00 | 0.010 | ppm |
| Maximum 1 hr. | 0.021 | ppm |
| Average 24 hr. | 0.012 | ppm |
| Standard (1 hr.) ¹ | 0.17 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

² Start Time

* Parameter Outside The Scope of The Responsibility of The Department of Industrial Works
(Measurement By Mr. Tummarat Inkonkarn)



Approved By

(MS. THANATPORN KLINSOPON)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจตุจักร กรุงเทพฯ 10900
7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chulachak, Bangkok 10900
Tel : (662) 939-4370-72 Fax : (662) 513-4221 E-mail : sale@spscon.com, www.spscon.com

Ref. No. AR206/04/23

25/2/66

Report No. 2304/370

รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ

โครงการ : บริษัท พีทีที อาซาฮี เคมีคอล จำกัด วันที่เก็บตัวอย่าง : 19-20 เมษายน 2566
ที่ได้โครงการ : นิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (นาบตาพุด) วันที่รับตัวอย่าง : 21 เมษายน 2566
เลขที่ 8 ถนนแจ้งเมืองเฉพาะ 3-1 ตำบลห้วยโป่ง วันที่วิเคราะห์ : 21 เมษายน-3 พฤษภาคม 2566
อำเภอเมืองระยอง จังหวัดระยอง วันที่ออกรายงาน : 9 พฤษภาคม 2566
ชื่อที่อยู่ลูกค้า : บริษัท เอ็นพีซี เซเทค แอนด์ เอ็นไวรอนเม้นทอล เซอร์วิส จำกัด
ผู้เก็บตัวอย่าง : นายเกษม สิมมาผล
บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

| พารามิเตอร์ | วิธีเก็บตัวอย่าง | วิธีวิเคราะห์ | บริเวณหรือตัวโครงการด้านทิศเหนือ | ค่ามาตรฐาน |
|----------------------------------|------------------|-----------------------|----------------------------------|-------------------------------|
| VOCs (µg/m ³) | | | | |
| 1. Propene | Canister | U.S. EPA Method TO-15 | 14 | - |
| 2. Dichlorodifluoromethane | Canister | U.S. EPA Method TO-15 | 4.6 | - |
| 3. Chlorodifluoromethane | Canister | U.S. EPA Method TO-15 | 2.0 | - |
| 4. 1,2-Dichlorotetrafluoroethane | Canister | U.S. EPA Method TO-15 | <0.25 | - |
| 5. Chloromethane | Canister | U.S. EPA Method TO-15 | 3.9 | - |
| 6. Isobutene | Canister | U.S. EPA Method TO-15 | 2.3 | - |
| 7. Vinyl Chloride | Canister | U.S. EPA Method TO-15 | <0.07 | ไม่เกิน 20 |
| 8. 1,3-Butadiene | Canister | U.S. EPA Method TO-15 | <0.07 | ไม่เกิน 5.3 |
| 9. Acetaldehyde | Canister | U.S. EPA Method TO-15 | 6.3 | ไม่เกิน 860 |
| 10. Methanol | Canister | U.S. EPA Method TO-15 | 2.9 | - |
| 11. Bromomethane | Canister | U.S. EPA Method TO-15 | <0.08 | ไม่เกิน 190 |
| 12. Chloroethane | Canister | U.S. EPA Method TO-15 | <0.03 | - |
| 13. Trichlorofluoromethane | Canister | U.S. EPA Method TO-15 | 2.0 | - |
| 14. Pentane | Canister | U.S. EPA Method TO-15 | <0.05 | - |
| 15. Ethanol | Canister | U.S. EPA Method TO-15 | 4.6 | - |
| 16. Isoprene | Canister | U.S. EPA Method TO-15 | <0.06 | - |
| 17. Acrolein | Canister | U.S. EPA Method TO-15 | <0.18 | ไม่เกิน 0.55 |
| 18. Propanal | Canister | U.S. EPA Method TO-15 | <0.08 | - |
| 19. 1,1-Dichloroethylene | Canister | U.S. EPA Method TO-15 | <0.05 | - |
| 20. CFC-113 | Canister | U.S. EPA Method TO-15 | <0.13 | - |
| 21. Acetone | Canister | U.S. EPA Method TO-15 | 11 | ไม่เกิน 11,880 ^(M) |
| 22. Methyl iodide | Canister | U.S. EPA Method TO-15 | <0.15 | - |
| 23. Carbondisulfide | Canister | U.S. EPA Method TO-15 | 2.9 | ไม่เกิน 100 ^(M) |
| 24. 2-Propanol | Canister | U.S. EPA Method TO-15 | 1.0 | - |
| 25. Acetonitrile | Canister | U.S. EPA Method TO-15 | <0.07 | - |
| 26. Dichloromethane | Canister | U.S. EPA Method TO-15 | 1.2 | ไม่เกิน 210 |
| 27. Cyclopentane | Canister | U.S. EPA Method TO-15 | <0.09 | - |
| 28. Acrylonitrile | Canister | U.S. EPA Method TO-15 | <0.15 | ไม่เกิน 10 |



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด
S.P.S. CONSULTING SERVICE CO., LTD.
7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900
7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chatuchak, Bangkok 10900
Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com, www.spscon.com

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Ref. No. AR206/04/23

Report No. 2304/370

25/2/66

รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ

| พารามิเตอร์ | วิธีเก็บตัวอย่าง | วิธีวิเคราะห์ | บริเวณริมรั้วโครงการด้านทิศเหนือ | ค่ามาตรฐาน |
|-----------------------------------|------------------|-----------------------|----------------------------------|-------------|
| VOCs ($\mu\text{g}/\text{m}^3$) | | | | |
| 29. MTBE | Canister | U.S. EPA Method TO-15 | <0.06 | - |
| 30. Hexane | Canister | U.S. EPA Method TO-15 | 0.74 | - |
| 31. Methacrolein | Canister | U.S. EPA Method TO-15 | <0.24 | - |
| 32. 1,1-Dichloroethane | Canister | U.S. EPA Method TO-15 | <0.05 | - |
| 33. Vinyl Acetate | Canister | U.S. EPA Method TO-15 | <0.38 | - |
| 34. 1-Propanol | Canister | U.S. EPA Method TO-15 | <0.06 | - |
| 35. Butanal | Canister | U.S. EPA Method TO-15 | <0.11 | - |
| 36. Methyl Vinyl Ketone | Canister | U.S. EPA Method TO-15 | <0.30 | - |
| 37. cis-1,2-Dichloroethene | Canister | U.S. EPA Method TO-15 | <0.08 | - |
| 38. MEK | Canister | U.S. EPA Method TO-15 | <0.27 | - |
| 39. Chloroform | Canister | U.S. EPA Method TO-15 | 0.72 | ไม่เกิน 57 |
| 40. 1,1,1-Trichloroethane | Canister | U.S. EPA Method TO-15 | <0.11 | - |
| 41. Cyclohexane | Canister | U.S. EPA Method TO-15 | <0.04 | - |
| 42. Carbon Tetrachloride | Canister | U.S. EPA Method TO-15 | <0.18 | ไม่เกิน 150 |
| 43. Benzene | Canister | U.S. EPA Method TO-15 | 0.67 | ไม่เกิน 7.6 |
| 44. 1,2-Dichloroethane | Canister | U.S. EPA Method TO-15 | <0.09 | ไม่เกิน 48 |
| 45. Trichloroethylene | Canister | U.S. EPA Method TO-15 | <0.23 | ไม่เกิน 130 |
| 46. 1-Butanol | Canister | U.S. EPA Method TO-15 | <0.32 | - |
| 47. 1,2-Dichloropropane | Canister | U.S. EPA Method TO-15 | <0.19 | ไม่เกิน 82 |
| 48. 2-Pentanone | Canister | U.S. EPA Method TO-15 | <0.20 | - |
| 49. Pentanal | Canister | U.S. EPA Method TO-15 | <0.06 | - |
| 50. 3-Pentanone | Canister | U.S. EPA Method TO-15 | <0.25 | - |
| 51. 1,4-Dioxane | Canister | U.S. EPA Method TO-15 | <0.20 | ไม่เกิน 860 |
| 52. Bromodichloromethane | Canister | U.S. EPA Method TO-15 | <0.25 | - |
| 53. trans-1,3-Dichloropropene | Canister | U.S. EPA Method TO-15 | <0.15 | - |
| 54. 4-Methyl-2-Pentanone | Canister | U.S. EPA Method TO-15 | <0.12 | - |
| 55. Toluene | Canister | U.S. EPA Method TO-15 | 0.56 | - |
| 56. cis-1,3-Dichloropropene | Canister | U.S. EPA Method TO-15 | <0.25 | - |
| 57. 1,1,2-Trichloroethane | Canister | U.S. EPA Method TO-15 | <0.24 | - |
| 58. Tetrachloroethylene | Canister | U.S. EPA Method TO-15 | <0.39 | ไม่เกิน 400 |
| 59. 3-Hexanone | Canister | U.S. EPA Method TO-15 | <0.33 | - |
| 60. 2-Hexanone | Canister | U.S. EPA Method TO-15 | <0.20 | - |
| 61. Hexanal | Canister | U.S. EPA Method TO-15 | <0.30 | - |
| 62. 1,2-Dibromoethane | Canister | U.S. EPA Method TO-15 | <0.51 | ไม่เกิน 370 |

F1208-2/01-12-22/AIR2301



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด
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Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com, www.spscon.com

3/3

Ref. No. AR206/04/23

Report No. 2304/370

25/2/66

รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ

| พารามิเตอร์ | วิธีเก็บตัวอย่าง | วิธีวิเคราะห์ | บริเวณริมรั้วโครงการด้านทิศเหนือ | ค่ามาตรฐาน |
|-----------------------------------|------------------|-----------------------|----------------------------------|---------------|
| VOCs ($\mu\text{g}/\text{m}^3$) | | | | |
| 63. Chlorobenzene | Canister | U.S. EPA Method TO-15 | <0.23 | - |
| 64. Ethylbenzene | Canister | U.S. EPA Method TO-15 | 0.26 | - |
| 65. m,p-Xylene | Canister | U.S. EPA Method TO-15 | <0.07 | - |
| 66. o-Xylene | Canister | U.S. EPA Method TO-15 | <0.07 | - |
| 67. Total Xylene | Canister | U.S. EPA Method TO-15 | <0.07 | - |
| 68. Styrene | Canister | U.S. EPA Method TO-15 | <0.07 | - |
| 69. Bromoform | Canister | U.S. EPA Method TO-15 | <0.87 | - |
| 70. 1,1,2,2-Tetrachloroethane | Canister | U.S. EPA Method TO-15 | <0.64 | ไม่เกิน 83 |
| 71. 1,3,5-Trimethylbenzene | Canister | U.S. EPA Method TO-15 | <0.49 | - |
| 72. 1,2,4-Trimethylbenzene | Canister | U.S. EPA Method TO-15 | <0.42 | - |
| 73. 1,3-Dichlorobenzene | Canister | U.S. EPA Method TO-15 | <0.39 | - |
| 74. 1,4-Dichlorobenzene | Canister | U.S. EPA Method TO-15 | <0.47 | ไม่เกิน 1,100 |
| 75. 1,2,3-Trimethylbenzene | Canister | U.S. EPA Method TO-15 | <0.27 | - |
| 76. Benzyl Chloride | Canister | U.S. EPA Method TO-15 | <0.25 | ไม่เกิน 12 |
| 77. 1,2-Dichlorobenzene | Canister | U.S. EPA Method TO-15 | <0.35 | - |
| 78. 1,2,4-Trichlorobenzene | Canister | U.S. EPA Method TO-15 | <0.13 | - |

หมายเหตุ:

- ค่ามาตรฐาน⁽¹⁾ = ประกาศกรมควบคุมมลพิษ เรื่อง กำหนดค่ามาตรฐานสำหรับสารอินทรีย์ระเหยง่ายในบรรยากาศโดยทั่วไปในเวลา 24 ชั่วโมง พ.ศ.2552
- ค่ามาตรฐาน⁽²⁾ = ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง กำหนดมาตรฐานก๊าซคาร์บอนไดออกไซด์ในบรรยากาศโดยทั่วไป พ.ศ. 2560
- ค่ามาตรฐาน⁽³⁾ = เกณฑ์ของ Ontario's Ambient Air Quality Criteria, 2019

ผลการตรวจวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์เท่านั้น

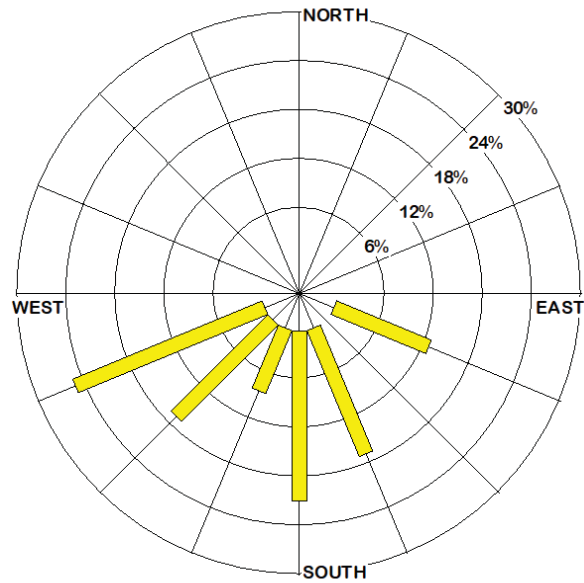
ห้ามคัดลอกข้อมูลผลการตรวจวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากบริษัทเป็นลายลักษณ์อักษร

(นางสาวบุษยารัตน์ ศิลาลัง)
เจ้าหน้าที่ประจำห้องวิเคราะห์
9 / 5 / 46

(นางสาวสุภาวดี แสนทวีสุข)
ผู้ควบคุมห้องวิเคราะห์
4 / 5 / 46

----- End of Report -----

F1208-2/01-12-22/AIR2301



**WIND SPEED
(m/s)**

- > 10.8
- 8.1 - 10.8
- 5.6 - 8.0
- 3.4 - 5.5
- 1.7 - 3.3
- 0.3 - 1.6
- < 0.3

ผังแสดงความเร็วและทิศทางลม บริเวณริมรั้วโครงการด้านทิศเหนือ
ระหว่างวันที่ 19-20 เมษายน 2566

Wind Speed & Wind Direction

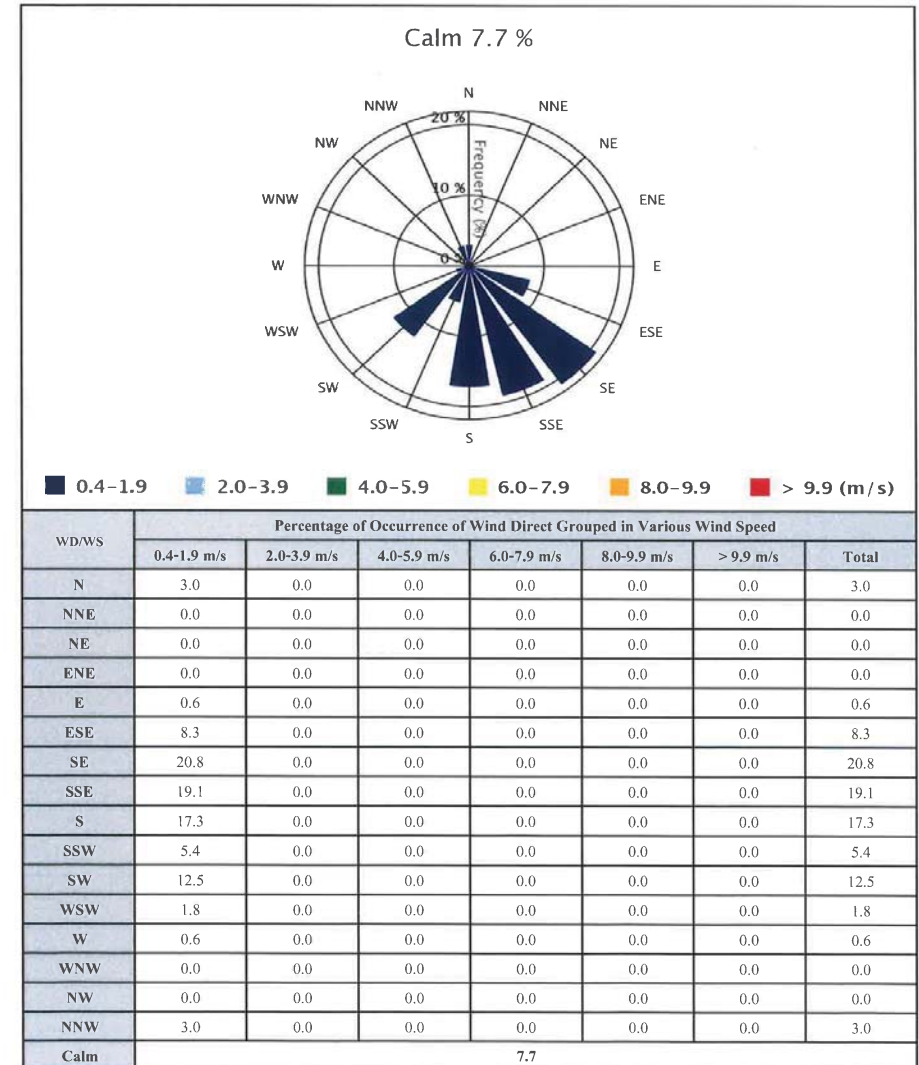
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดมาบขุด)

Sampling Date : April 18 - 25, 2023



Wind Speed & Wind Direction

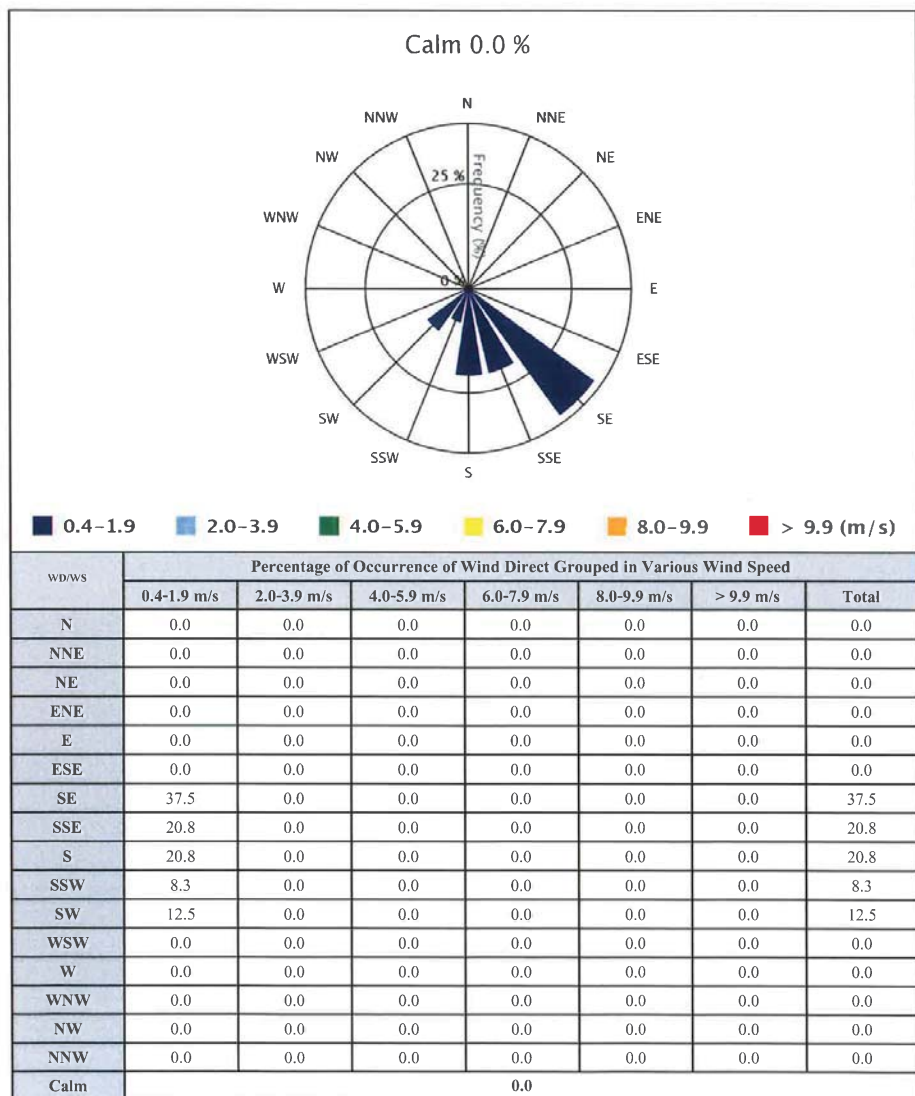
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-1

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุค)

Sampling Date : April 18-19, 2023



Wind Speed & Wind Direction

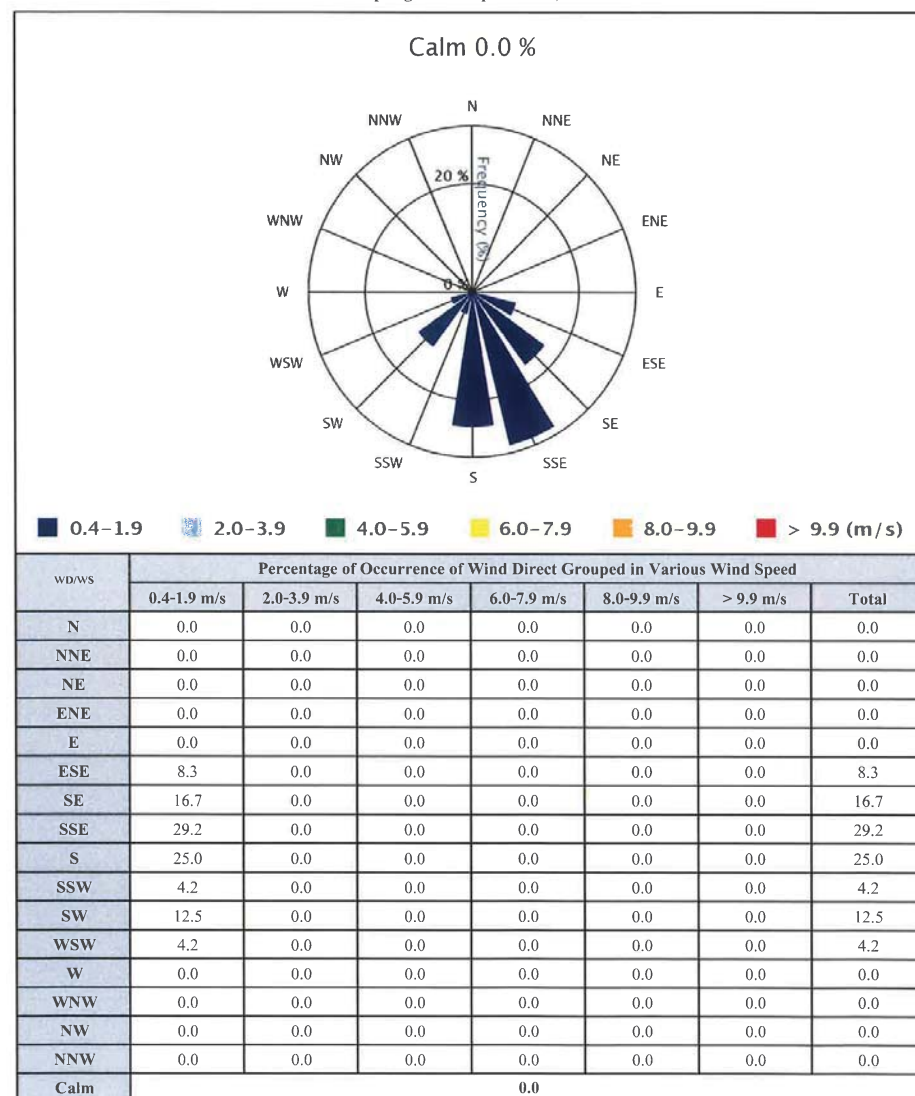
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-2

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุค)

Sampling Date : April 19-20, 2023



Wind Speed & Wind Direction

Request No. LA66-R0506

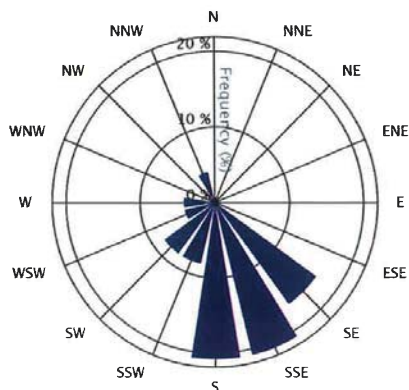
NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-3

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุค)

Sampling Date : April 20-21, 2023

Calm 12.5 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SE | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| SSE | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| S | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| SSW | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| SW | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| WSW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| W | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| WNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| Calm | 12.5 | | | | | | |

Wind Speed & Wind Direction

Request No. LA66-R0506

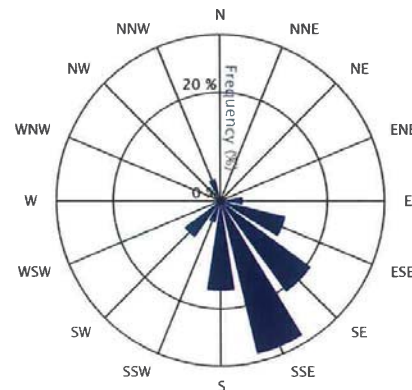
NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-4

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุค)

Sampling Date : April 21-22, 2023

Calm 0.0 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| ESE | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 |
| SE | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| SSE | 29.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.2 |
| S | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| SSW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| SW | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| WSW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| W | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| Calm | 0.0 | | | | | | |

Wind Speed & Wind Direction

Request No. LA66-R0506

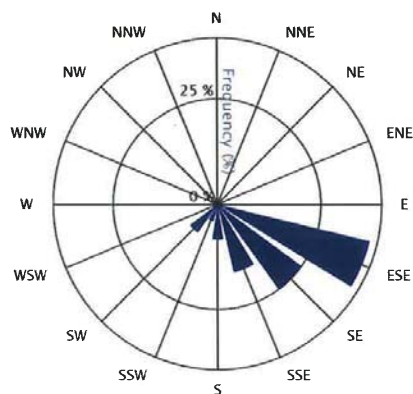
NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-5

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุค)

Sampling Date : April 22-23, 2023

Calm 0.0 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESE | 37.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.5 |
| SE | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 |
| SSE | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| S | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| SSW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| SW | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| WSW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| W | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Calm | 0.0 | | | | | | 0.0 |

Wind Speed & Wind Direction

Request No. LA66-R0506

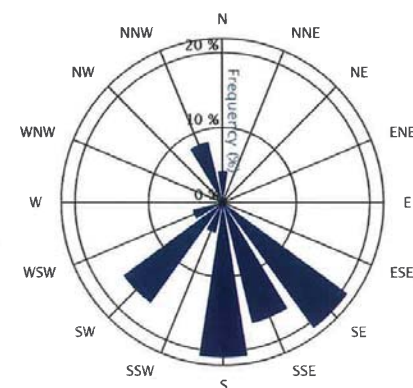
NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-6

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุค)

Sampling Date : April 23-24, 2023

Calm 4.2 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SE | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| SSE | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| S | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| SSW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| SW | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| WSW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| W | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNW | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| Calm | 4.2 | | | | | | 4.2 |

Wind Speed & Wind Direction

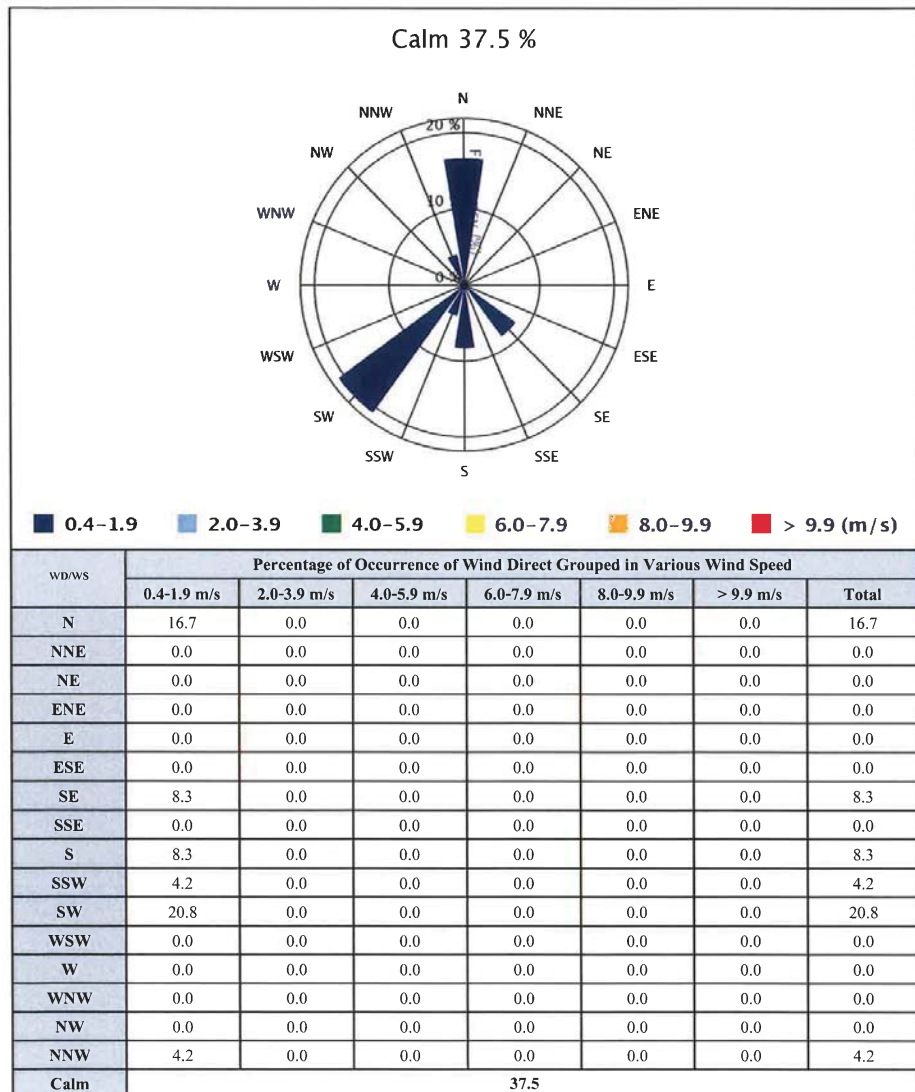
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244-7

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุ่ย)

Sampling Date : April 24-25, 2023



Wind Speed & Wind Direction

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07244

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดนาบขลุ่ย)

Sampling Date : April 18 - 25, 2023

| Time | April 18-19, 2023 | | April 19-20, 2023 | | April 20-21, 2023 | | April 21-22, 2023 | | April 22-23, 2023 | | April 23-24, 2023 | | April 24-25, 2023 | |
|-------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
| | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction |
| 10:00-11:00 | 0.9 | S | 0.9 | S | 0.4 | NNW | 0.4 | NNW | 0.9 | ESE | 0.9 | S | 0.4 | SW |
| 11:00-12:00 | 0.4 | S | 0.9 | S | 0.9 | SSW | 0.4 | E | 0.9 | SE | 0.9 | SSW | 0.4 | S |
| 12:00-13:00 | 0.9 | S | 0.9 | S | 0.9 | SW | 0.9 | SSE | 1.3 | SE | 0.9 | S | 0.9 | SE |
| 13:00-14:00 | 0.9 | SSE | 0.9 | S | 0.9 | S | 0.9 | S | 0.9 | SE | 0.9 | SE | 0.9 | SSW |
| 14:00-15:00 | 1.3 | SE | 0.9 | SSE | 0.9 | S | 0.9 | SSE | 1.3 | ESE | 1.3 | SE | 0.9 | SW |
| 15:00-16:00 | 0.9 | S | 0.9 | S | 0.9 | S | 0.9 | S | 1.3 | ESE | 1.3 | SSE | 0.9 | SW |
| 16:00-17:00 | 0.9 | SE | 0.9 | SSE | 0.9 | S | 0.9 | SSE | 0.9 | SSE | 1.3 | S | 0.9 | S |
| 17:00-18:00 | 0.9 | SE | 1.3 | ESE | 0.9 | SSE | 0.9 | S | 0.9 | ESE | 0.9 | SE | 0.9 | N |
| 18:00-19:00 | 0.9 | SSE | 0.9 | SSE | 0.9 | SSE | 0.4 | SE | 0.9 | SSE | 0.9 | SSE | 0.4 | NNW |
| 19:00-20:00 | 0.4 | SE | 0.9 | SE | 0.9 | SE | 0.4 | ESE | 0.4 | SSE | 0.9 | SE | 0.0 | - |
| 20:00-21:00 | 0.9 | SE | 0.9 | SSE | 0.9 | SSE | 0.4 | SE | 0.9 | SSE | 0.4 | SE | 0.0 | - |
| 21:00-22:00 | 0.9 | SE | 0.9 | ESE | 0.9 | SE | 0.4 | SE | 0.9 | ESE | 0.4 | SSE | 0.4 | SW |
| 22:00-23:00 | 0.9 | SE | 0.4 | SE | 0.9 | SE | 0.4 | ESE | 0.4 | ESE | 0.4 | SSE | 0.0 | - |
| 23:00-00:00 | 0.9 | SSE | 0.9 | SE | 0.4 | S | 0.4 | SSE | 0.4 | ESE | 0.4 | S | 0.4 | SE |
| 00:00-01:00 | 0.9 | SSE | 0.4 | SE | 0.4 | SSE | 0.4 | SE | 0.4 | ESE | 0.4 | S | 0.4 | N |
| 01:00-02:00 | 0.4 | SSE | 0.9 | SSE | 0.4 | SE | 0.4 | SSE | 0.4 | SE | 0.4 | SW | 0.0 | - |
| 02:00-03:00 | 0.9 | SE | 0.9 | SSE | 0.4 | SSE | 0.9 | ESE | 0.9 | SE | 0.9 | SW | 0.0 | - |
| 03:00-04:00 | 0.4 | SE | 0.9 | SSE | 0.4 | SSW | 0.9 | SE | 0.9 | ESE | 0.9 | SW | 0.0 | - |
| 04:00-05:00 | 0.4 | S | 0.4 | SSW | 0.4 | SW | 0.4 | SSE | 0.4 | SE | 0.4 | WSW | 0.0 | - |
| 05:00-06:00 | 0.4 | SW | 0.9 | S | 0.4 | WSW | 0.4 | S | 0.4 | S | 0.4 | SW | 0.0 | - |
| 06:00-07:00 | 0.9 | SSW | 0.9 | SW | 0.0 | - | 0.4 | SSE | 0.9 | SW | 0.0 | - | 0.4 | N |
| 07:00-08:00 | 0.4 | SW | 0.4 | WSW | 0.0 | - | 0.9 | SSW | 0.4 | SW | 0.4 | N | 0.4 | N |
| 08:00-09:00 | 0.9 | SW | 0.4 | SW | 0.0 | - | 0.9 | SW | 0.9 | SSW | 0.4 | NNW | 0.0 | - |
| 09:00-10:00 | 0.9 | SSW | 0.4 | SW | 0.4 | W | 0.4 | SW | 0.4 | S | 0.4 | NNW | 0.9 | SW |

Wind Speed & Wind Direction

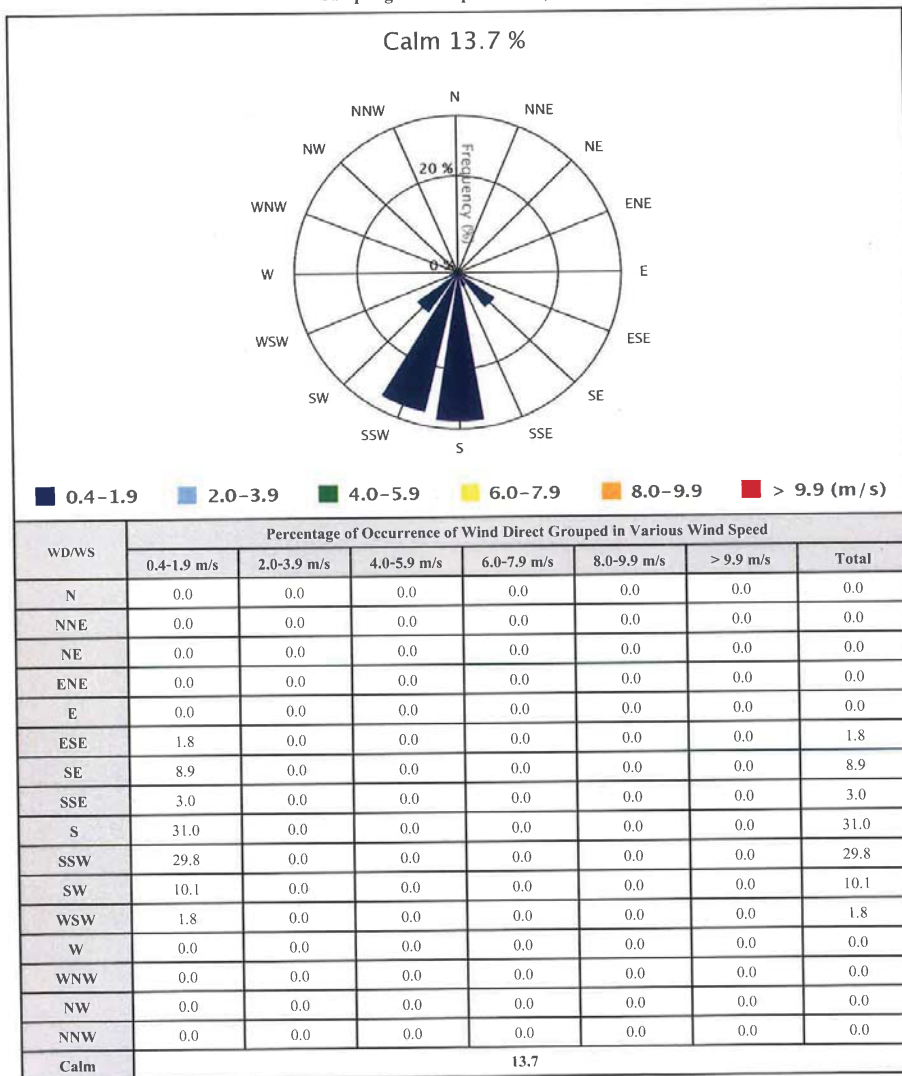
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองเพน)

Sampling Date : April 18 - 25, 2023



Wind Speed & Wind Direction

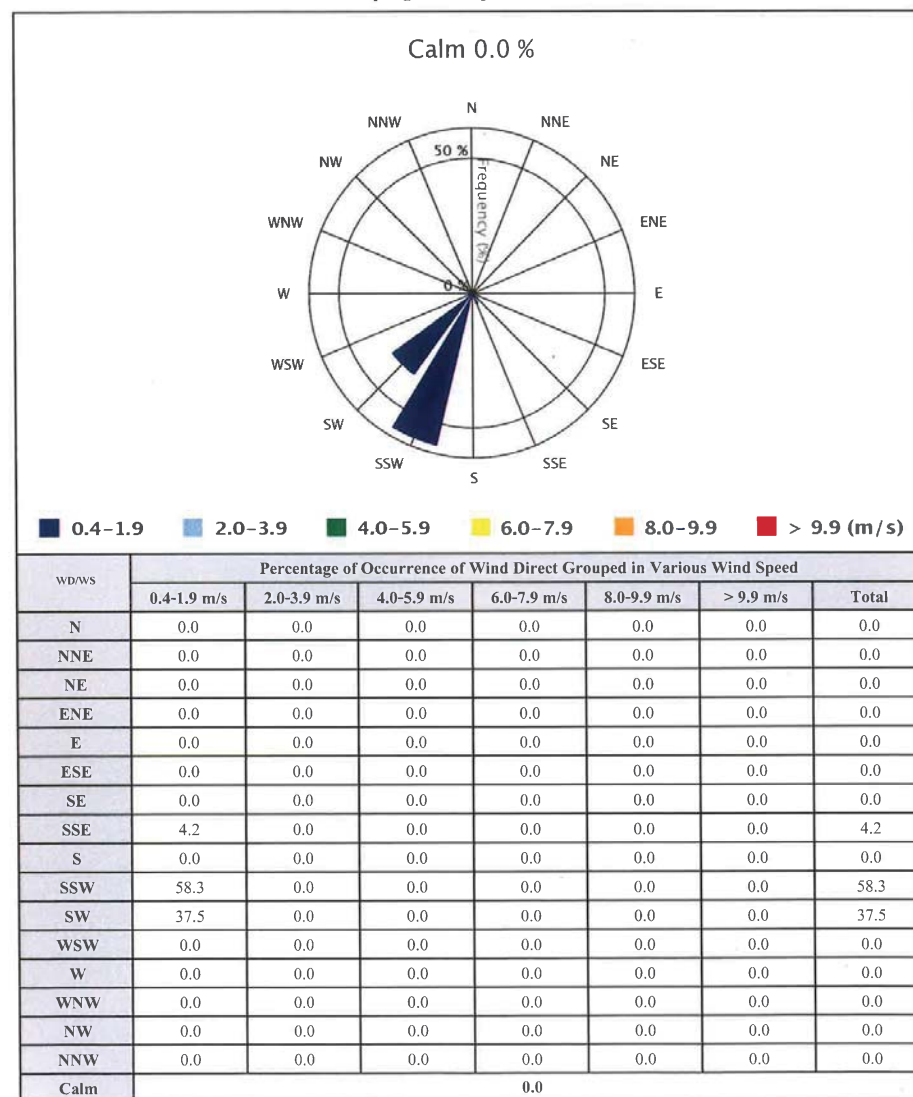
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-1

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองเพน)

Sampling Date : April 18-19, 2023



Wind Speed & Wind Direction

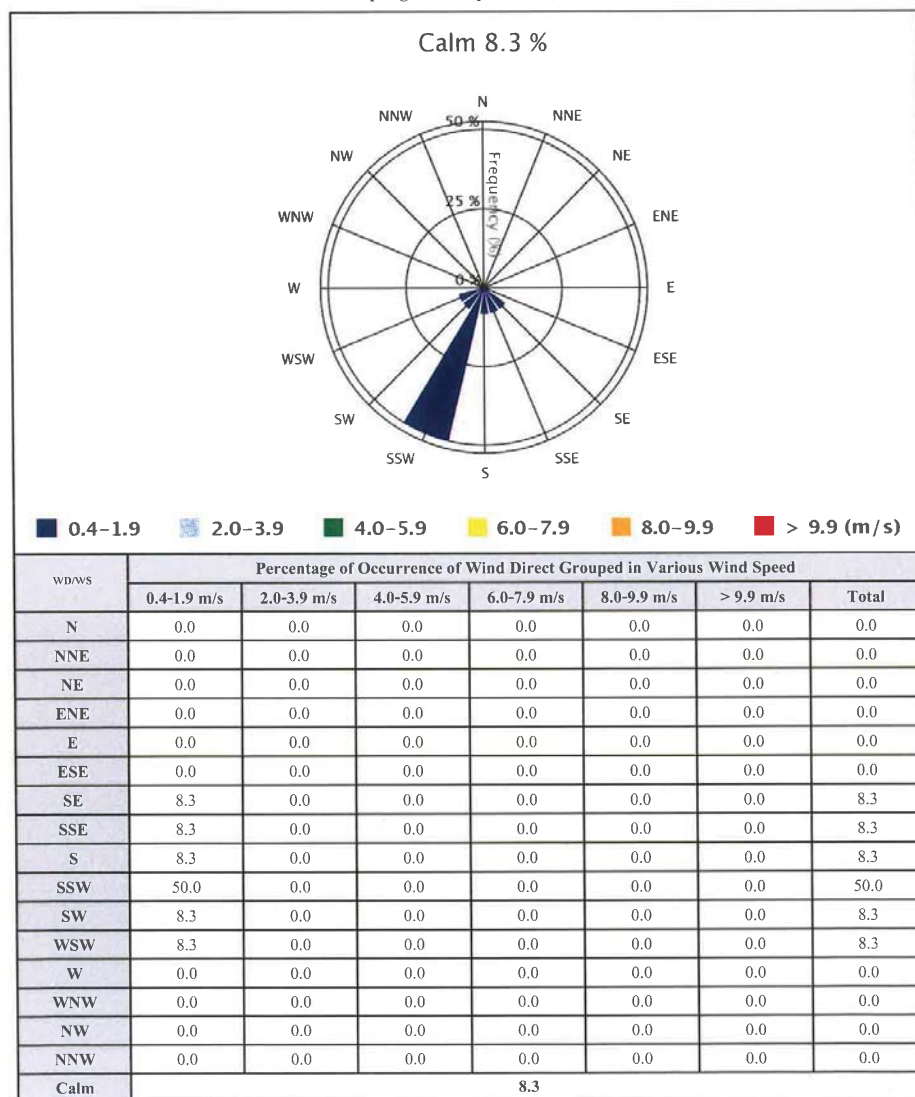
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-2

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 19-20, 2023



Wind Speed & Wind Direction

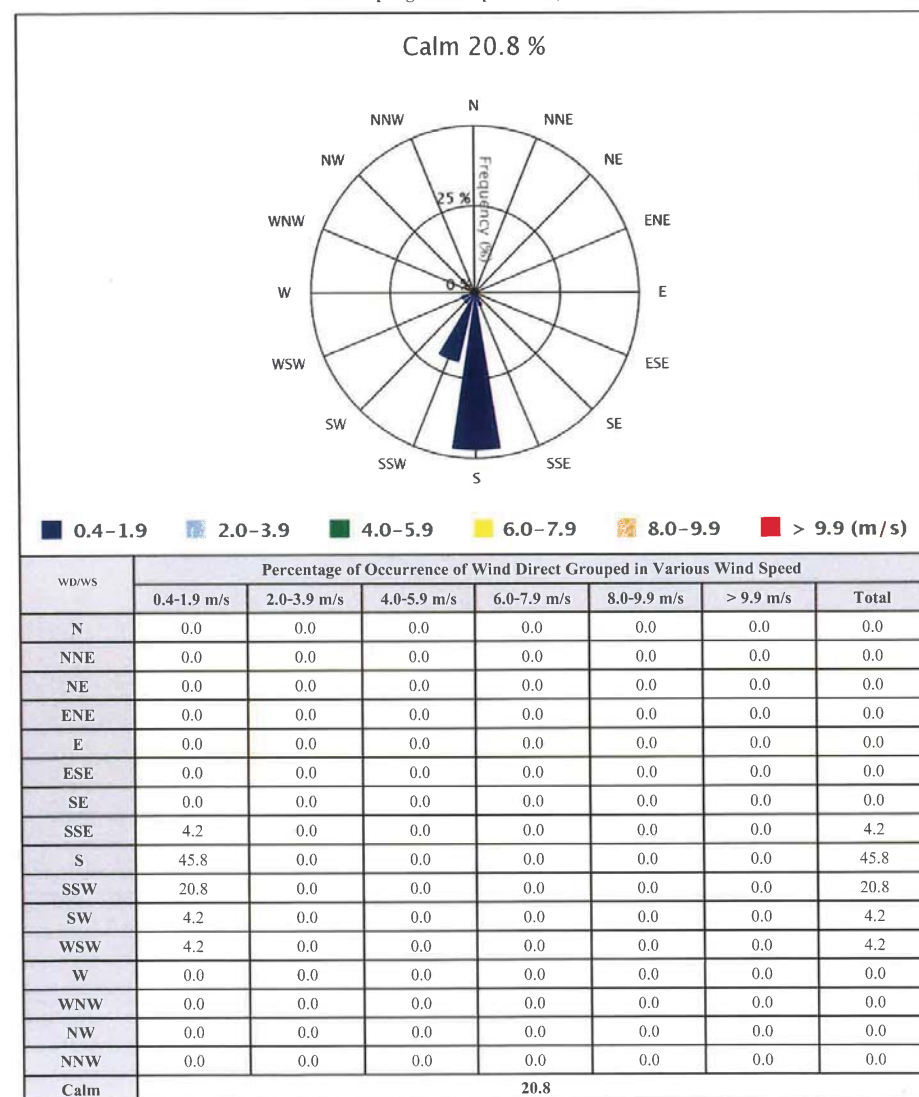
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-3

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 20-21, 2023



Wind Speed & Wind Direction

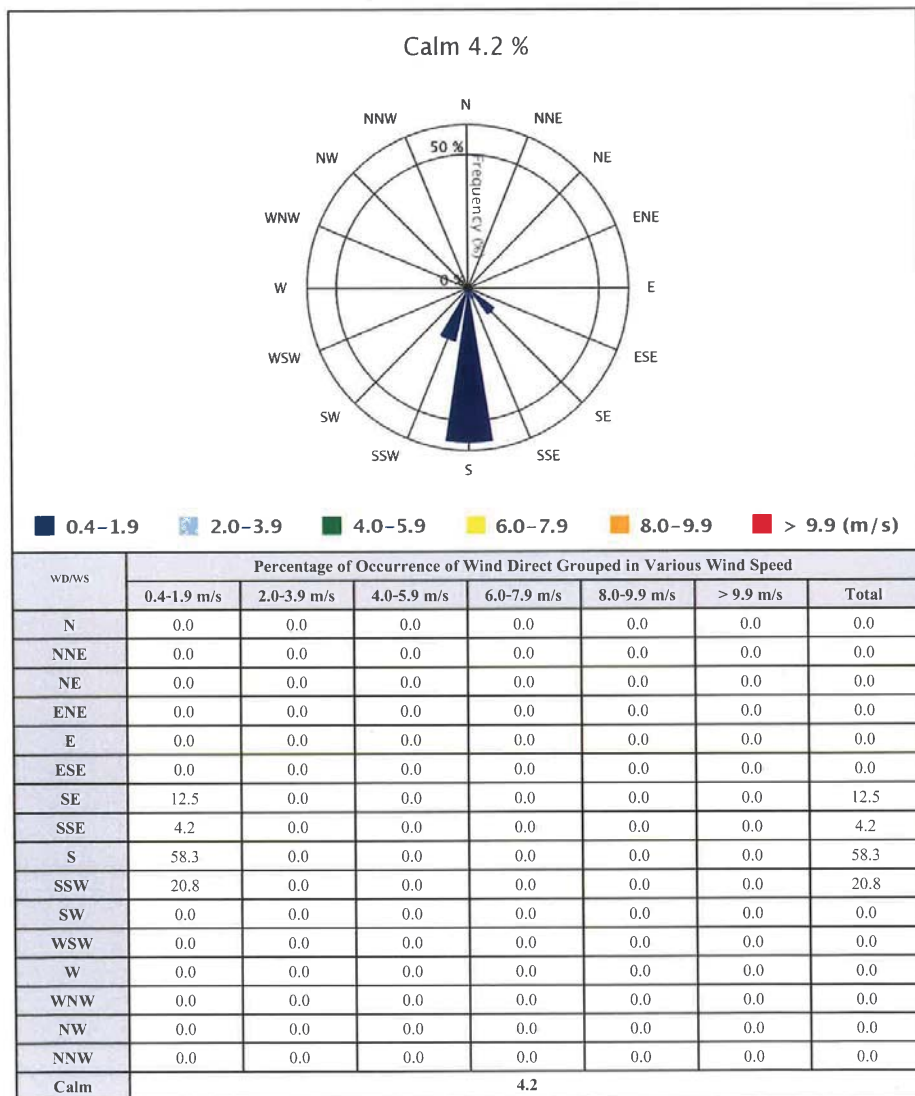
Request No. LA65-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-4

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 21-22, 2023



Wind Speed & Wind Direction

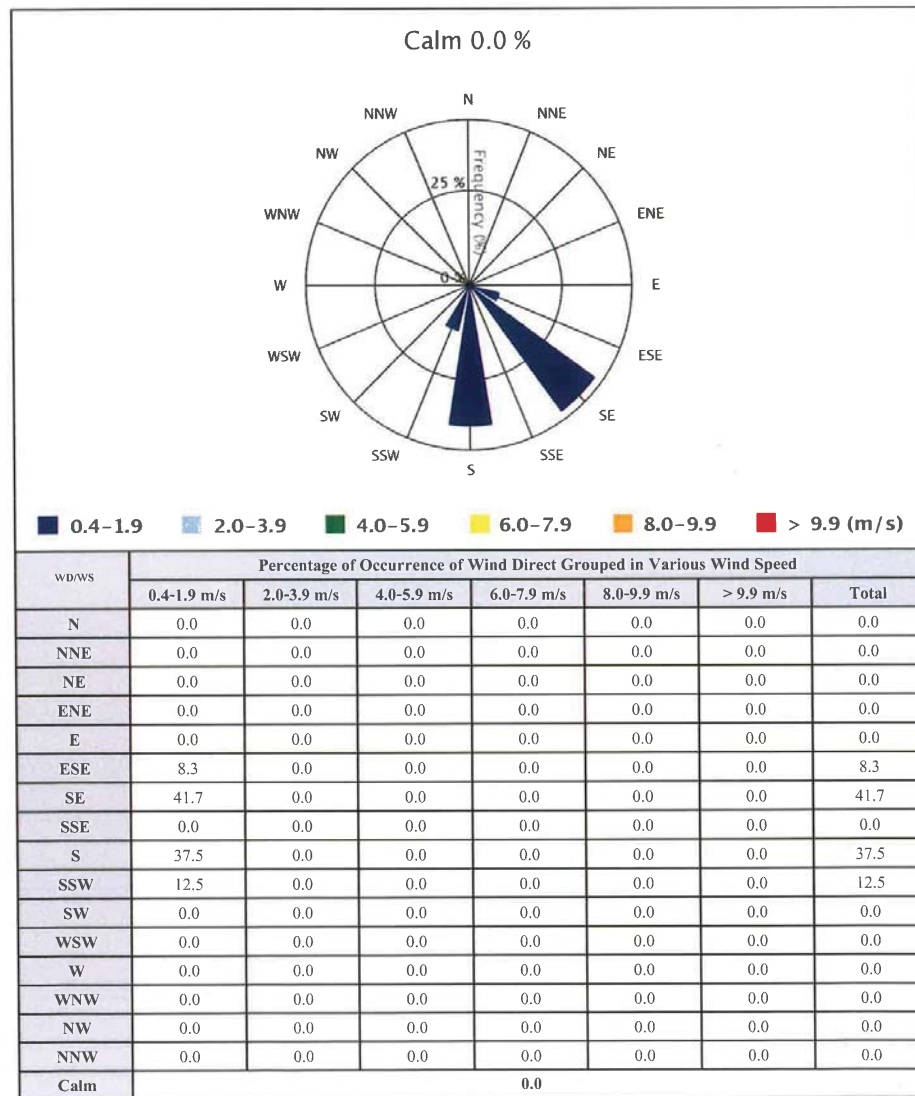
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-5

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 22-23, 2023



Wind Speed & Wind Direction

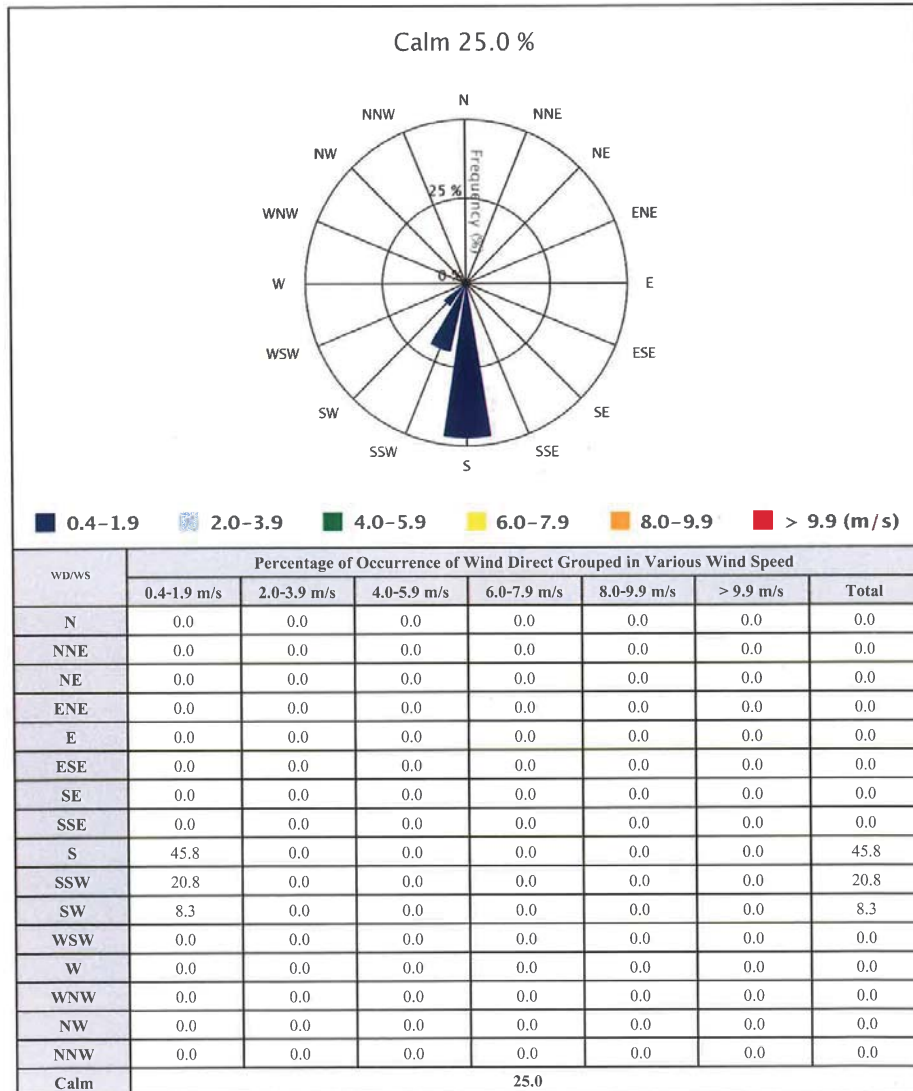
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-6

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 23-24, 2023



Wind Speed & Wind Direction

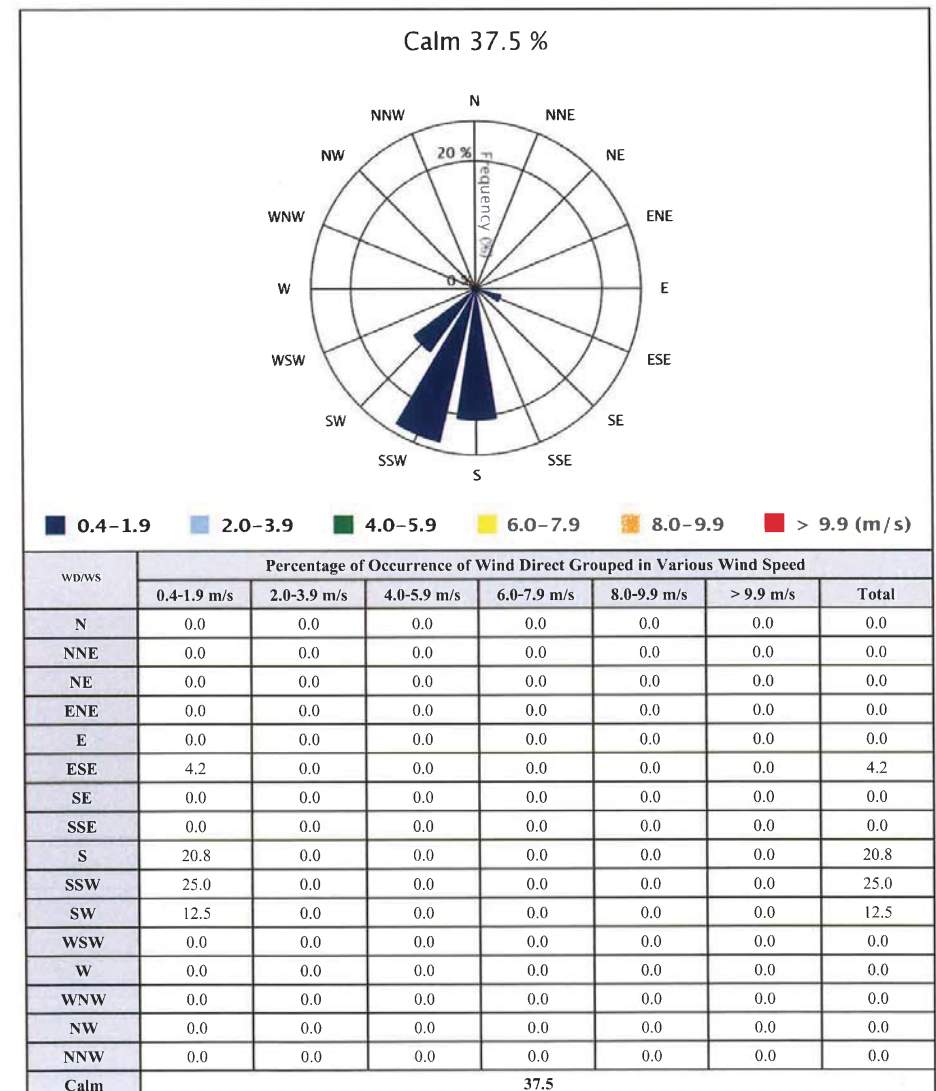
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07242-7

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 24-25, 2023



Wind Speed & Wind Direction

NPC Safety and Environmental Service Co., Ltd.

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดหนองแฟบ)

Sampling Date : April 18 - 25, 2023

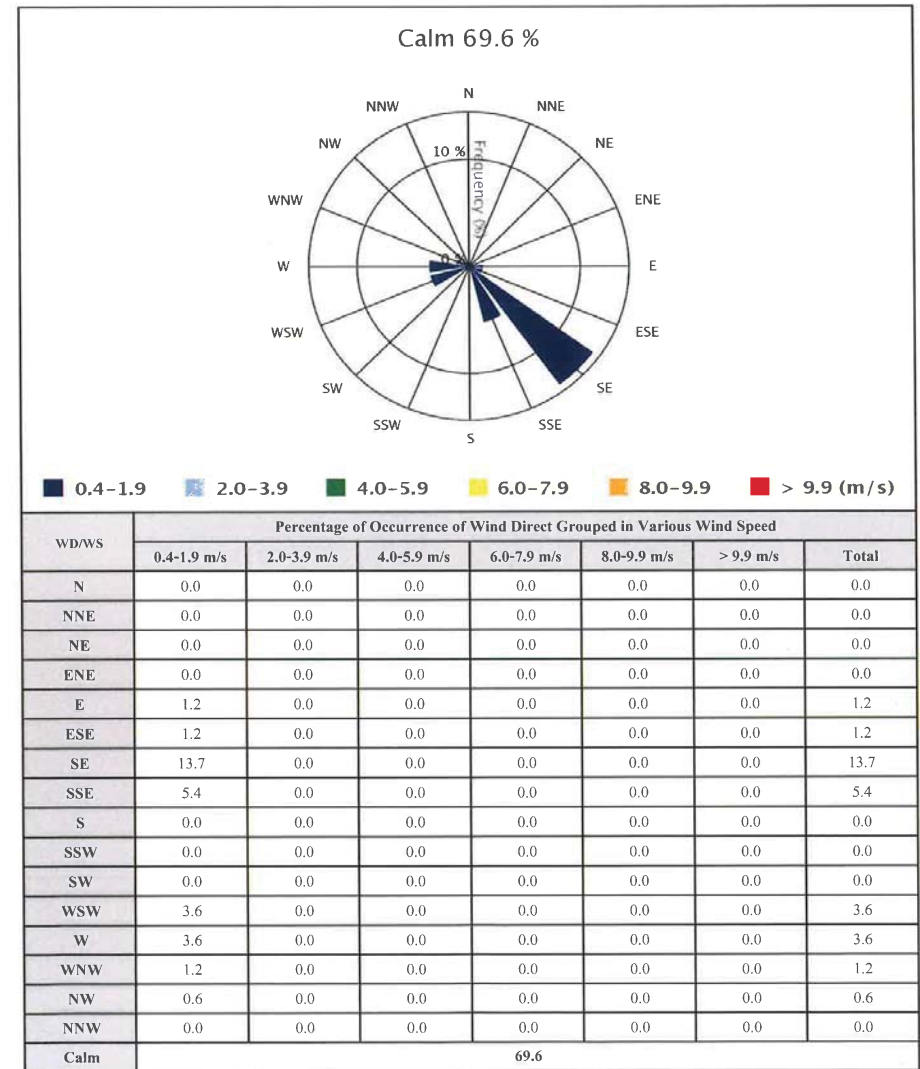
| Time | April 18-19, 2023 | | April 19-20, 2023 | | April 20-21, 2023 | | April 21-22, 2023 | | April 22-23, 2023 | | April 23-24, 2023 | | April 24-25, 2023 | |
|-------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
| | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction |
| 10:00-11:00 | 1.8 | SSW | 0.9 | SW | 0.9 | WSW | 0.4 | SSW | 0.9 | S | 1.3 | S | 0.0 | * |
| 11:00-12:00 | 1.3 | SSW | 1.3 | SW | 0.9 | SW | 1.3 | S | 1.3 | S | 1.3 | S | 0.9 | S |
| 12:00-13:00 | 1.3 | SSW | 1.3 | SSW | 1.3 | S | 1.3 | S | 1.3 | ESE | 1.3 | S | 1.3 | S |
| 13:00-14:00 | 1.8 | SW | 1.8 | SSW | 1.3 | SSW | 1.3 | SSW | 1.3 | SE | 1.3 | S | 1.3 | SW |
| 14:00-15:00 | 1.8 | SW | 1.8 | SSW | 1.3 | SSW | 1.3 | S | 1.8 | S | 1.3 | S | 1.3 | SW |
| 15:00-16:00 | 1.8 | SSW | 1.8 | SSW | 1.3 | SSW | 1.3 | S | 1.3 | SE | 1.3 | S | 0.9 | SW |
| 16:00-17:00 | 1.8 | SW | 1.3 | SSW | 1.3 | S | 1.3 | S | 1.3 | SE | 1.3 | S | 0.9 | SSW |
| 17:00-18:00 | 1.8 | SW | 0.9 | SE | 0.9 | S | 0.9 | S | 0.9 | ESE | 0.9 | S | 0.9 | ESE |
| 18:00-19:00 | 1.3 | SSW | 0.9 | S | 0.9 | S | 0.4 | SE | 0.4 | S | 0.4 | S | 0.0 | * |
| 19:00-20:00 | 0.9 | SSE | 0.9 | SSE | 0.9 | S | 0.4 | SE | 0.9 | SE | 0.9 | S | 0.0 | * |
| 20:00-21:00 | 1.3 | SSW | 0.9 | SE | 1.3 | S | 0.9 | SSE | 0.4 | SE | 0.9 | S | 0.0 | * |
| 21:00-22:00 | 1.3 | SSW | 0.4 | SSE | 0.9 | SSE | 0.9 | S | 0.9 | SE | 0.9 | SSW | 0.4 | SSW |
| 22:00-23:00 | 1.3 | SSW | 0.4 | SSW | 0.9 | S | 0.9 | SE | 0.9 | SE | 0.9 | SSW | 0.4 | SSW |
| 23:00-00:00 | 1.3 | SSW | 0.9 | SSW | 0.9 | S | 0.4 | S | 0.9 | SE | 0.9 | SSW | 0.9 | S |
| 00:00-01:00 | 0.9 | SSW | 0.9 | SSW | 0.9 | SSW | 0.9 | S | 1.3 | SE | 0.9 | SSW | 0.4 | S |
| 01:00-02:00 | 1.3 | SSW | 0.9 | SSW | 0.9 | S | 1.3 | S | 0.9 | SE | 0.4 | SSW | 0.4 | SSW |
| 02:00-03:00 | 1.3 | SSW | 1.3 | SSW | 0.4 | S | 1.3 | S | 0.9 | S | 0.4 | SW | 0.0 | * |
| 03:00-04:00 | 1.3 | SSW | 0.9 | S | 0.4 | SSW | 1.3 | S | 0.4 | S | 0.4 | SW | 0.0 | * |
| 04:00-05:00 | 0.9 | SSW | 0.4 | SSW | 0.0 | * | 0.9 | S | 0.4 | S | 0.0 | * | 0.4 | SSW |
| 05:00-06:00 | 0.9 | SW | 0.4 | SSW | 0.0 | * | 0.9 | SSW | 0.9 | SSW | 0.0 | * | 0.0 | * |
| 06:00-07:00 | 0.9 | SW | 0.0 | * | 0.0 | * | 0.9 | SSW | 0.4 | SSW | 0.0 | * | 0.0 | * |
| 07:00-08:00 | 0.9 | SW | 0.0 | * | 0.0 | * | 0.4 | SSW | 0.4 | SSW | 0.0 | * | 0.0 | * |
| 08:00-09:00 | 0.9 | SW | 0.4 | WSW | 0.0 | * | 0.0 | * | 0.4 | S | 0.0 | * | 0.4 | S |
| 09:00-10:00 | 0.9 | SW | 0.9 | WSW | 0.4 | S | 0.4 | S | 0.9 | S | 0.0 | * | 0.4 | SSW |

Wind Speed & Wind Direction

NPC Safety and Environmental Service Co., Ltd.

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดขากลูกหญ้า)

Sampling Date : April 18 - 25, 2023



Wind Speed & Wind Direction

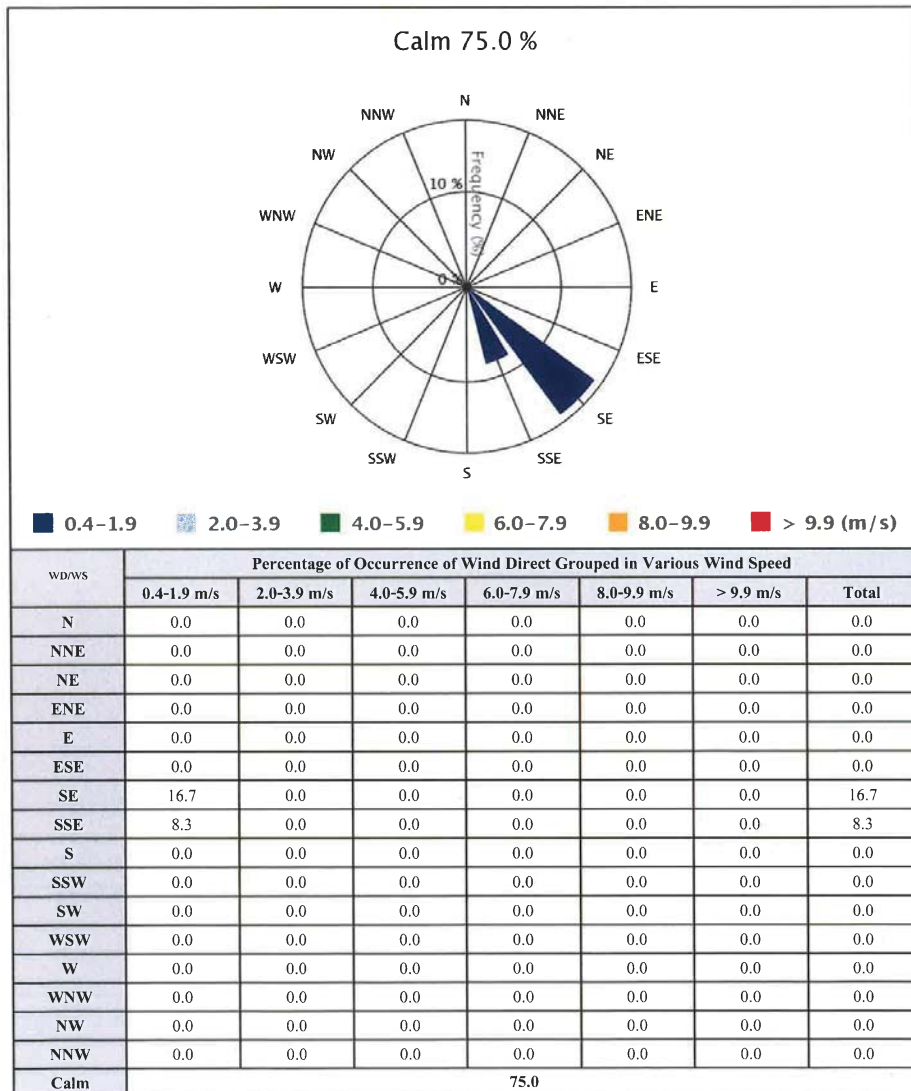
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-1

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดจากลูกหอย)

Sampling Date : April 18-19, 2023



Wind Speed & Wind Direction

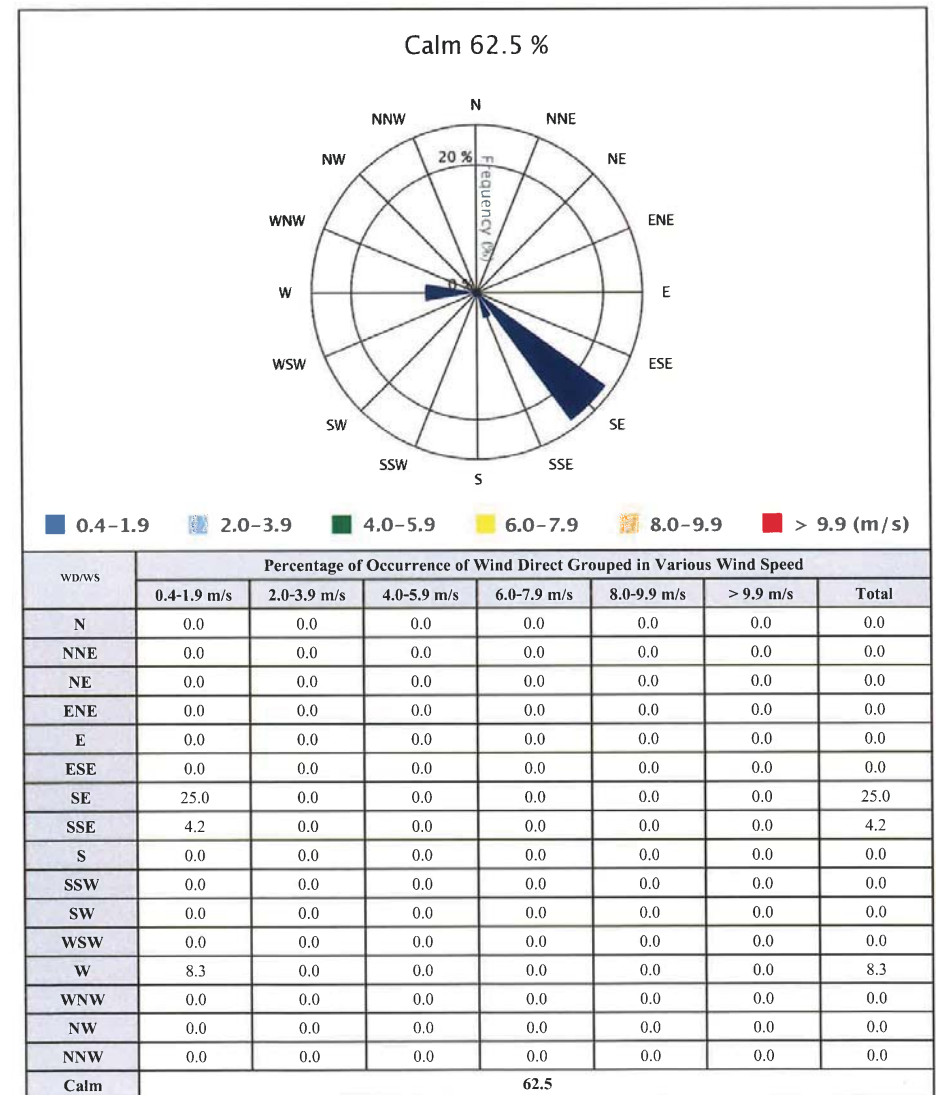
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-2

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดจากลูกหอย)

Sampling Date : April 19-20, 2023



Wind Speed & Wind Direction

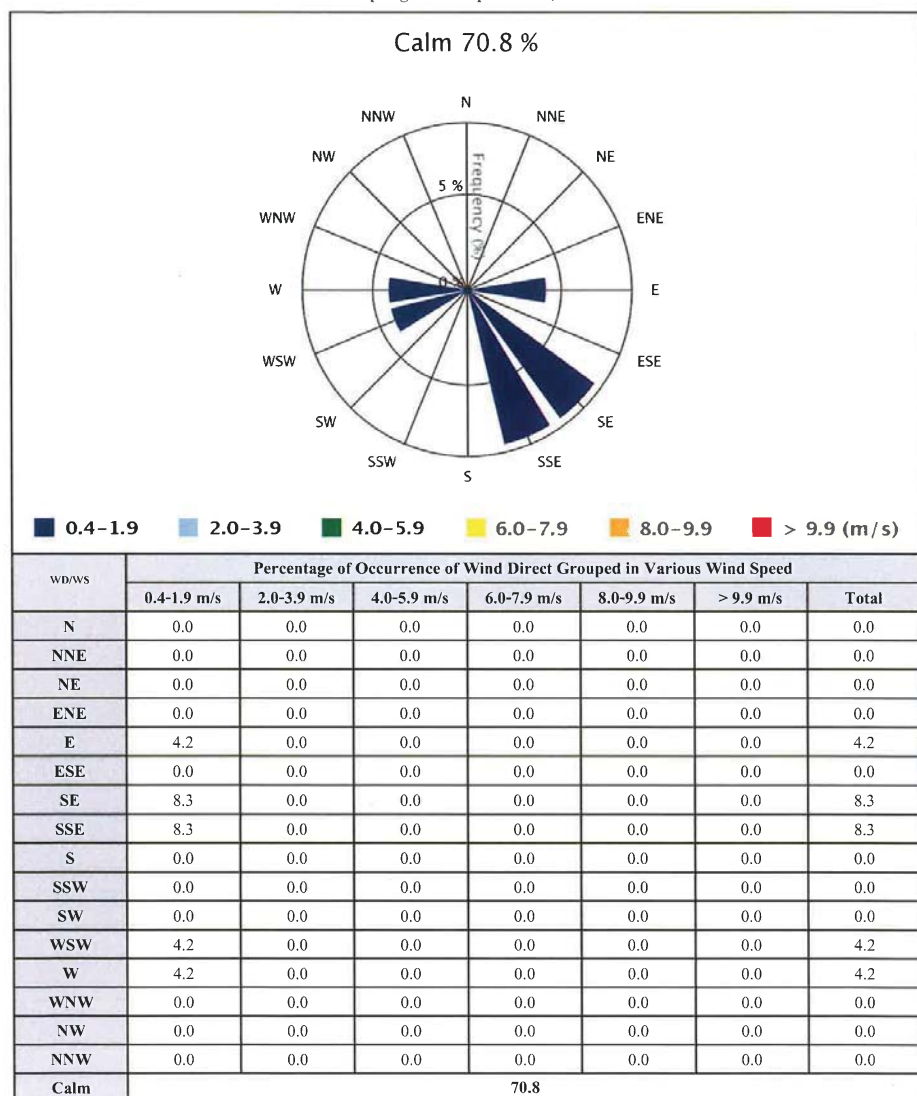
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-3

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดจากลูกห้อย)

Sampling Date : April 20-21, 2023



Wind Speed & Wind Direction

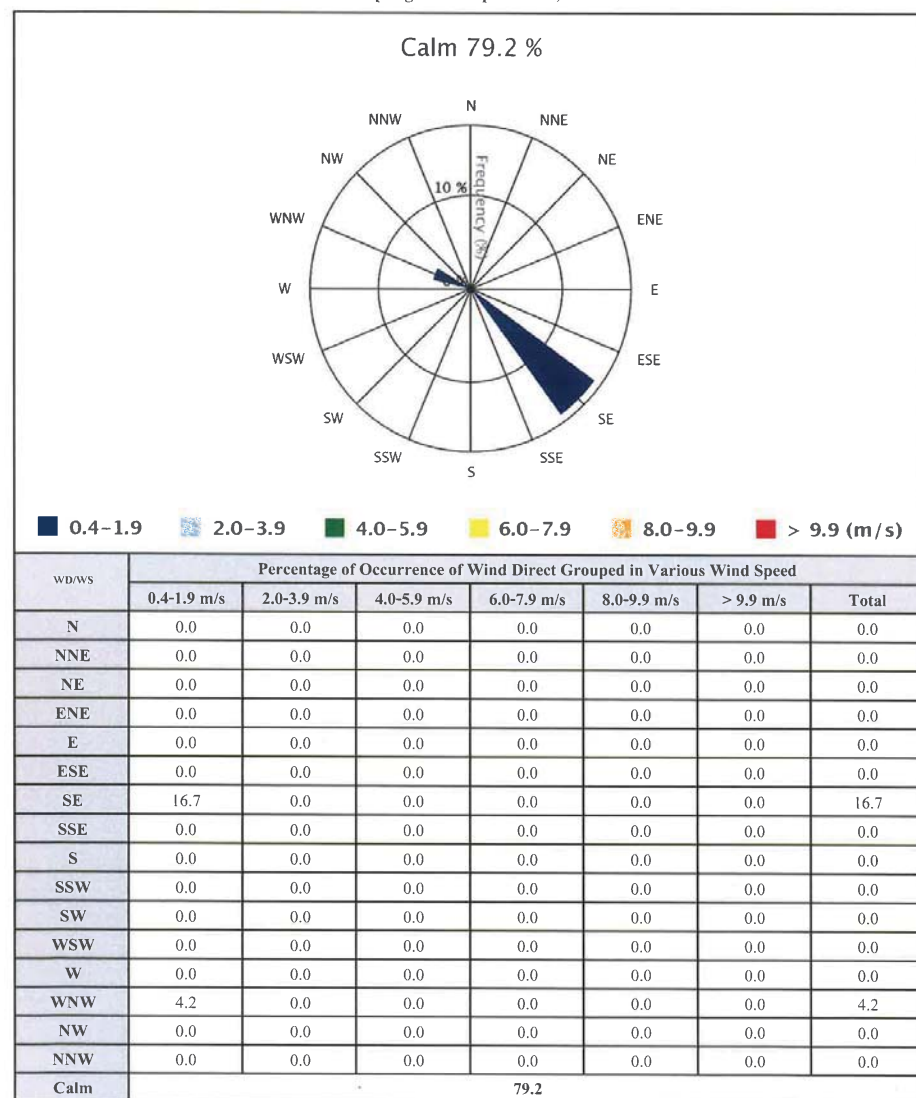
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-4

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดจากลูกห้อย)

Sampling Date : April 21-22, 2023



Wind Speed & Wind Direction

Request No. LA66-R0506

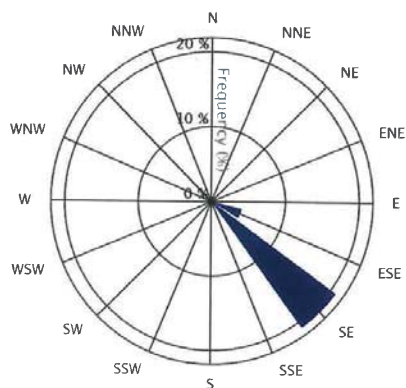
NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-5

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดชากลูกหญ้า)

Sampling Date : April 22-23, 2023

Calm 75.0 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESE | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| SE | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| SSE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SSW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| W | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Calm | 75.0 | | | | | | |

Wind Speed & Wind Direction

Request No. LA66-R0506

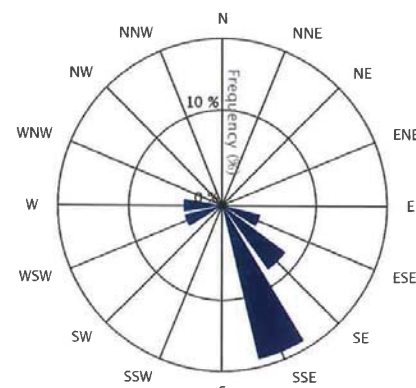
NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-6

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดชากลูกหญ้า)

Sampling Date : April 23-24, 2023

Calm 62.5 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESE | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| SE | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| SSE | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SSW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| W | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| WNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Calm | 62.5 | | | | | | |

Wind Speed & Wind Direction

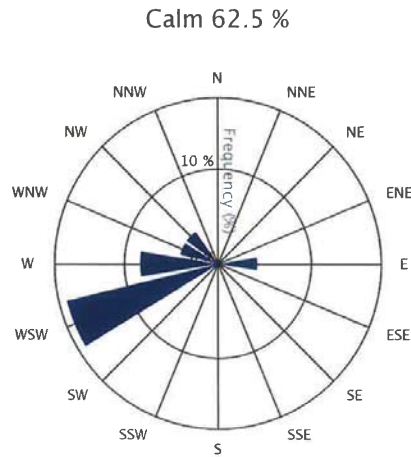
Request No. LA66-R0506

NPC Safety and Environmental Service Co., Ltd.

Sample No. 07243-7

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดจากลูกห้อย)

Sampling Date : April 24-25, 2023



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 > 9.9 (m/s)

| WD/WS | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed | | | | | | Total |
|-------|---|-------------|-------------|-------------|-------------|-----------|-------|
| | 0.4-1.9 m/s | 2.0-3.9 m/s | 4.0-5.9 m/s | 6.0-7.9 m/s | 8.0-9.9 m/s | > 9.9 m/s | |
| N | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NNE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ENE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| ESE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SSE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SSW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSW | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 |
| W | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| WNW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| NW | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| NNW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Calm | 62.5 | | | | | | |

Wind Speed & Wind Direction

NPC Safety and Environmental Service Co., Ltd.

Sampling Source : PTT Asahi Chemical Co., Ltd. (วัดจากลูกห้อย)

Sampling Date : April 18 - 25, 2023

| Time | April 18-19, 2023 | | April 19-20, 2023 | | April 20-21, 2023 | | April 21-22, 2023 | | April 22-23, 2023 | | April 23-24, 2023 | | April 24-25, 2023 | |
|-------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
| | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction | Wind Speed (m/s) | Wind Direction |
| 11:00-12:00 | 0.4 | SE | 0.4 | SE | 1.3 | W | 0.4 | WNW | 0.4 | ESE | 0.4 | SSE | 0.4 | WSW |
| 12:00-13:00 | 0.4 | SE | 0.4 | SSE | 1.3 | WSW | 0.4 | SE | 0.4 | SE | 0.4 | ESE | 0.4 | E |
| 13:00-14:00 | 0.4 | SE | 0.4 | SE | 0.4 | SSE | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | W |
| 14:00-15:00 | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | W |
| 15:00-16:00 | 0.4 | SSE | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | SE | 0.4 | SSE | 1.3 | WSW |
| 16:00-17:00 | 0.4 | SSE | 0.4 | SE | 0.4 | SSE | 0.0 | * | 0.4 | SE | 0.4 | SSE | 0.4 | WSW |
| 17:00-18:00 | 0.0 | * | 0.4 | SE | 0.0 | * | 0.0 | * | 0.0 | * | 0.4 | SSE | 0.9 | NW |
| 18:00-19:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.4 | WNW |
| 19:00-20:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 20:00-21:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 21:00-22:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 22:00-23:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 23:00-00:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 00:00-01:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 01:00-02:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 02:00-03:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 03:00-04:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 04:00-05:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 05:00-06:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 06:00-07:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 07:00-08:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 08:00-09:00 | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * | 0.0 | * |
| 09:00-10:00 | 0.0 | * | 0.4 | W | 0.0 | * | 0.0 | * | 0.0 | * | 0.4 | W | 0.0 | * |
| 10:00-11:00 | 0.0 | * | 0.9 | W | 0.4 | E | 0.0 | * | 0.0 | * | 0.4 | WSW | 0.4 | WSW |