

## ภาคผนวกที่ 30

ผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

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คุณภาพอากาศในบรรยากาศ



Request No. ATR6510036

Report No. 6510-0693 - 6510-0699

## 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 : บริเวณชุมชนมาบขลุ  
 RECEIVED DATE : 31/10/2022 SAMPLE NO. : A65100693 - A65100699  
 TESTED DATE : 31/10/2022-04/11/2022 REPORTED DATE : 08/11/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1)</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	14-15/10/2022	0.055	0.12	mg/m <sup>3</sup>
		15-16/10/2022	0.044	0.12	mg/m <sup>3</sup>
		16-17/10/2022	0.036	0.12	mg/m <sup>3</sup>
		17-18/10/2022	0.069	0.12	mg/m <sup>3</sup>
		18-19/10/2022	0.087	0.12	mg/m <sup>3</sup>
		19-20/10/2022	0.061	0.12	mg/m <sup>3</sup>
		20-21/10/2022	0.068	0.12	mg/m <sup>3</sup>

**REMARK:** <sup>1)</sup> 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)

08/11/2022

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



Request No. LA65-R1055

Report No. R6510-1613 - R6510-1619

## 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 : วัดมาบขลุ  
 PARAMETER\* : Sulfur Dioxide  
 DETERMINATION METHOD : UV-Fluorescence  
 INSTRUMENT : API Model MI00E S/N 3138  
 SAMPLE NO. : 30929-30935  
 SAMPLING DATE : 14-21/10/2022  
 RECEIVED DATE : 26/10/2022  
 REPORTED DATE : 01/11/2022

TIME / DATE	14-15/10/2022	15-16/10/2022	16-17/10/2022	UNIT
11:00 - 12:00 <sup>3)</sup>	<0.001	<0.001	<0.001	ppm
12:00 - 13:00	<0.001	<0.001	0.001	ppm
13:00 - 14:00	<0.001	0.001	0.001	ppm
14:00 - 15:00	0.008	<0.001	<0.001	ppm
15:00 - 16:00	0.002	<0.001	0.001	ppm
16:00 - 17:00	0.003	0.002	0.001	ppm
17:00 - 18:00	0.002	<0.001	<0.001	ppm
18:00 - 19:00	0.005	0.004	0.001	ppm
19:00 - 20:00	0.002	0.004	0.001	ppm
20:00 - 21:00	0.012	0.003	0.004	ppm
21:00 - 22:00	0.014	0.004	0.005	ppm
22:00 - 23:00	0.011	0.003	0.004	ppm
23:00 - 00:00	0.006	0.005	0.001	ppm
00:00 - 01:00	<0.001	0.004	0.003	ppm
01:00 - 02:00	0.004	0.004	0.005	ppm
02:00 - 03:00	0.001	0.004	0.002	ppm
03:00 - 04:00	0.006	0.003	0.007	ppm
04:00 - 05:00	0.009	0.003	0.001	ppm
05:00 - 06:00	0.008	0.004	<0.001	ppm
06:00 - 07:00	0.006	0.002	<0.001	ppm
07:00 - 08:00	0.009	0.003	<0.001	ppm
08:00 - 09:00	<0.001	0.005	<0.001	ppm
09:00 - 10:00	<0.001	0.007	0.001	ppm
10:00 - 11:00	<0.001	0.002	<0.001	ppm
Maximum 1 hr.	0.014	0.007	0.007	ppm
Average 24 hr.	0.005	0.003	0.002	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	0.12	0.12	ppm

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

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

<sup>3)</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

01/11/2022

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Request No. LA65-R1055

Report No. R6510-1613 - R6510-1619

## 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\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3138

SAMPLE NO. : 30929-30935  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	17-18/10/2022	18-19/10/2022	19-20/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	<0.001	0.008	0.005	ppm
12:00 - 13:00	<0.001	0.002	0.003	ppm
13:00 - 14:00	<0.001	0.010	0.005	ppm
14:00 - 15:00	0.009	0.006	0.007	ppm
15:00 - 16:00	0.001	0.005	0.006	ppm
16:00 - 17:00	<0.001	0.005	0.007	ppm
17:00 - 18:00	0.001	0.004	0.006	ppm
18:00 - 19:00	<0.001	0.005	0.004	ppm
19:00 - 20:00	0.002	0.004	0.006	ppm
20:00 - 21:00	0.002	0.004	0.005	ppm
21:00 - 22:00	<0.001	0.005	0.004	ppm
22:00 - 23:00	0.005	0.005	0.004	ppm
23:00 - 00:00	<0.001	0.004	0.005	ppm
00:00 - 01:00	<0.001	0.004	0.006	ppm
01:00 - 02:00	0.007	0.003	0.007	ppm
02:00 - 03:00	0.002	0.005	0.006	ppm
03:00 - 04:00	0.003	0.004	0.005	ppm
04:00 - 05:00	0.004	0.002	0.006	ppm
05:00 - 06:00	0.005	0.001	0.006	ppm
06:00 - 07:00	0.007	0.001	0.005	ppm
07:00 - 08:00	0.004	0.001	0.003	ppm
08:00 - 09:00	0.005	0.001	0.004	ppm
09:00 - 10:00	0.004	0.001	0.006	ppm
10:00 - 11:00	<0.001	0.001	0.006	ppm
Maximum 1 hr.	0.009	0.010	0.007	ppm
Average 24 hr.	0.003	0.004	0.005	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1)</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2)</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3)</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Work  
(Measurement By Mr. Tummarat Prasanna)

Approved By

(MS. THANATPORN KLINSOPON)

01/11/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA65-R1055

Report No. R6510-1613 - R6510-1619

## 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\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3138

SAMPLE NO. : 30929-30935  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	20-21/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	0.007	ppm
12:00 - 13:00	0.006	ppm
13:00 - 14:00	0.006	ppm
14:00 - 15:00	0.007	ppm
15:00 - 16:00	0.008	ppm
16:00 - 17:00	0.006	ppm
17:00 - 18:00	0.004	ppm
18:00 - 19:00	0.005	ppm
19:00 - 20:00	0.003	ppm
20:00 - 21:00	0.005	ppm
21:00 - 22:00	0.003	ppm
22:00 - 23:00	0.006	ppm
23:00 - 00:00	0.002	ppm
00:00 - 01:00	0.005	ppm
01:00 - 02:00	0.004	ppm
02:00 - 03:00	0.002	ppm
03:00 - 04:00	0.003	ppm
04:00 - 05:00	0.003	ppm
05:00 - 06:00	0.005	ppm
06:00 - 07:00	0.006	ppm
07:00 - 08:00	0.003	ppm
08:00 - 09:00	0.003	ppm
09:00 - 10:00	0.006	ppm
10:00 - 11:00	0.004	ppm
Maximum 1 hr.	0.008	ppm
Average 24 hr.	0.005	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	ppm

REMARK : <sup>1)</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2)</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3)</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Work  
(Measurement By Mr. Tummarat Prasanna)

Approved By

01/11/2022

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Request No. LA65-R1055

Report No. R6510-1620 - R6510-1626

## 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 : วัดมาบขลุ่ย  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Environment SA. Model AC32e S/N 693

SAMPLE NO. : 30936-30942  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	14-15/10/2022	15-16/10/2022	16-17/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.022	0.007	0.004	ppm
12:00 - 13:00	0.031	0.004	0.004	ppm
13:00 - 14:00	0.016	0.001	0.003	ppm
14:00 - 15:00	0.011	<0.001	<0.001	ppm
15:00 - 16:00	0.009	0.001	0.003	ppm
16:00 - 17:00	0.007	0.007	0.001	ppm
17:00 - 18:00	0.010	0.008	0.001	ppm
18:00 - 19:00	0.004	0.004	0.001	ppm
19:00 - 20:00	0.013	0.011	0.004	ppm
20:00 - 21:00	0.005	0.010	0.001	ppm
21:00 - 22:00	0.005	0.013	0.003	ppm
22:00 - 23:00	0.008	0.015	0.008	ppm
23:00 - 00:00	0.008	0.012	0.010	ppm
00:00 - 01:00	0.006	0.011	0.009	ppm
01:00 - 02:00	0.004	0.009	0.009	ppm
02:00 - 03:00	0.003	0.003	0.006	ppm
03:00 - 04:00	0.002	0.001	0.008	ppm
04:00 - 05:00	0.007	<0.001	0.005	ppm
05:00 - 06:00	0.015	0.002	0.006	ppm
06:00 - 07:00	0.013	0.001	0.005	ppm
07:00 - 08:00	0.012	<0.001	0.003	ppm
08:00 - 09:00	0.010	<0.001	0.004	ppm
09:00 - 10:00	0.008	0.001	0.005	ppm
10:00 - 11:00	0.009	0.003	0.006	ppm
Maximum 1 hr.	0.031	0.015	0.010	ppm
Average 24 hr.	0.010	0.005	0.005	ppm
Standard (1 hr.) <sup>11</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>12</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Prachanukarn)

Approved By:

01/11/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA65-R1055

Report No. R6510-1620 - R6510-1626

## 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 : วัดมาบขลุ่ย  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Environment SA. Model AC32e S/N 693

SAMPLE NO. : 30936-30942  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	17-18/10/2022	18-19/10/2022	19-20/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.006	0.009	0.010	ppm
12:00 - 13:00	0.007	0.004	0.003	ppm
13:00 - 14:00	0.010	0.005	0.005	ppm
14:00 - 15:00	0.010	0.006	0.004	ppm
15:00 - 16:00	0.015	0.001	0.009	ppm
16:00 - 17:00	0.013	0.001	0.003	ppm
17:00 - 18:00	0.009	0.002	0.002	ppm
18:00 - 19:00	0.005	0.005	0.002	ppm
19:00 - 20:00	0.009	0.005	0.008	ppm
20:00 - 21:00	0.008	0.004	0.013	ppm
21:00 - 22:00	0.016	0.004	0.016	ppm
22:00 - 23:00	0.004	0.008	0.014	ppm
23:00 - 00:00	0.004	0.010	0.012	ppm
00:00 - 01:00	0.009	0.009	0.012	ppm
01:00 - 02:00	0.012	0.011	0.010	ppm
02:00 - 03:00	0.008	0.010	0.005	ppm
03:00 - 04:00	0.004	0.002	0.004	ppm
04:00 - 05:00	0.006	0.001	0.003	ppm
05:00 - 06:00	0.008	0.001	0.004	ppm
06:00 - 07:00	0.010	0.007	0.011	ppm
07:00 - 08:00	0.016	0.006	0.006	ppm
08:00 - 09:00	0.015	0.002	0.001	ppm
09:00 - 10:00	0.008	0.006	0.004	ppm
10:00 - 11:00	0.009	0.007	0.006	ppm
Maximum 1 hr.	0.016	0.011	0.016	ppm
Average 24 hr.	0.009	0.005	0.007	ppm
Standard (1 hr.) <sup>11</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>12</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Prachanukarn)

Approved By:

01/11/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA65-R1055

Report No. R6510-1620 - R6510-1626

## 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 : วัดมาบขลุ่ย  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Environnement SA. Model AC32e S/N 693

SAMPLE NO. : 30936-30942  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	20-21/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.008	ppm
12:00 - 13:00	0.005	ppm
13:00 - 14:00	0.004	ppm
14:00 - 15:00	0.002	ppm
15:00 - 16:00	<0.001	ppm
16:00 - 17:00	0.002	ppm
17:00 - 18:00	0.004	ppm
18:00 - 19:00	0.003	ppm
19:00 - 20:00	0.002	ppm
20:00 - 21:00	0.005	ppm
21:00 - 22:00	0.009	ppm
22:00 - 23:00	0.009	ppm
23:00 - 00:00	0.010	ppm
00:00 - 01:00	0.011	ppm
01:00 - 02:00	0.007	ppm
02:00 - 03:00	0.006	ppm
03:00 - 04:00	0.003	ppm
04:00 - 05:00	0.004	ppm
05:00 - 06:00	0.001	ppm
06:00 - 07:00	0.001	ppm
07:00 - 08:00	0.002	ppm
08:00 - 09:00	0.005	ppm
09:00 - 10:00	0.005	ppm
10:00 - 11:00	0.006	ppm
Maximum 1 hr.	0.011	ppm
Average 24 hr.	0.005	ppm
Standard (1 hr.) <sup>11</sup>	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>12</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Photankhum)

Approved By

01/11/2022

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Request No. ATR6510036

Report No. 6510-0700 - 6510-0706

## 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 : 31/10/2022  
TESTED DATE : 31/10/2022-04/11/2022

SAMPLE NO. : A65100700 - A65100706  
REPORTED DATE : 08/11/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>11</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	14-15/10/2022	0.047	0.12	mg/m <sup>3</sup>
		15-16/10/2022	0.032	0.12	mg/m <sup>3</sup>
		16-17/10/2022	0.021	0.12	mg/m <sup>3</sup>
		17-18/10/2022	0.050	0.12	mg/m <sup>3</sup>
		18-19/10/2022	0.048	0.12	mg/m <sup>3</sup>
		19-20/10/2022	0.030	0.12	mg/m <sup>3</sup>
		20-21/10/2022	0.037	0.12	mg/m <sup>3</sup>

## REMARK:

<sup>11</sup> 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

08/11/2022

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Request No. LA65-R1055

Report No. R6510-1627 - R6510-1633

## 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 : วัดหนองเป็ด  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ

SAMPLE NO. : 30943-30949  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	14-15/10/2022	15-16/10/2022	16-17/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	0.001	0.001	0.001	ppm
12:00 - 13:00	0.001	0.001	0.001	ppm
13:00 - 14:00	0.001	0.001	0.001	ppm
14:00 - 15:00	0.001	0.001	0.001	ppm
15:00 - 16:00	0.001	0.001	0.001	ppm
16:00 - 17:00	0.001	0.001	0.001	ppm
17:00 - 18:00	0.001	0.001	0.001	ppm
18:00 - 19:00	0.001	0.001	0.001	ppm
19:00 - 20:00	0.001	0.001	0.001	ppm
20:00 - 21:00	0.001	0.001	0.001	ppm
21:00 - 22:00	0.001	0.001	0.001	ppm
22:00 - 23:00	0.001	0.001	0.001	ppm
23:00 - 00:00	0.001	0.001	0.001	ppm
00:00 - 01:00	0.001	0.001	0.001	ppm
01:00 - 02:00	0.001	0.001	0.001	ppm
02:00 - 03:00	0.001	0.001	0.001	ppm
03:00 - 04:00	0.001	0.001	0.001	ppm
04:00 - 05:00	0.001	0.001	0.001	ppm
05:00 - 06:00	0.001	0.001	0.001	ppm
06:00 - 07:00	0.001	0.001	0.001	ppm
07:00 - 08:00	0.001	0.001	0.001	ppm
08:00 - 09:00	0.001	0.001	0.001	ppm
09:00 - 10:00	0.001	0.001	0.001	ppm
10:00 - 11:00	0.001	0.001	0.001	ppm
Maximum 1 hr.	0.001	0.001	0.001	ppm
Average 24 hr.	0.001	0.001	0.001	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1)</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2)</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3)</sup> Start Time\* Parameter Outside The Scope of The Regulation of the Department of Industrial Work  
(Measurement By Mr. Tummarut Phadthakorn)

Approved By

01/11/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA65-R1055

Report No. R6510-1627 - R6510-1633

## 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 : วัดหนองเป็ด  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ

SAMPLE NO. : 30943-30949  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	17-18/10/2022	18-19/10/2022	19-20/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	0.001	0.001	0.001	ppm
12:00 - 13:00	0.001	0.001	0.001	ppm
13:00 - 14:00	0.001	0.001	0.001	ppm
14:00 - 15:00	0.001	0.001	0.001	ppm
15:00 - 16:00	0.001	0.001	0.001	ppm
16:00 - 17:00	0.001	0.001	0.001	ppm
17:00 - 18:00	0.001	0.001	0.001	ppm
18:00 - 19:00	0.001	0.001	0.001	ppm
19:00 - 20:00	0.001	0.001	0.001	ppm
20:00 - 21:00	0.001	0.001	0.001	ppm
21:00 - 22:00	0.001	0.001	0.001	ppm
22:00 - 23:00	0.001	0.001	0.001	ppm
23:00 - 00:00	0.001	0.001	0.001	ppm
00:00 - 01:00	0.001	0.001	0.001	ppm
01:00 - 02:00	0.001	0.001	0.001	ppm
02:00 - 03:00	0.001	0.001	0.001	ppm
03:00 - 04:00	0.001	0.001	0.001	ppm
04:00 - 05:00	0.001	0.001	0.001	ppm
05:00 - 06:00	0.001	0.001	0.001	ppm
06:00 - 07:00	0.001	0.001	0.001	ppm
07:00 - 08:00	0.001	0.001	0.001	ppm
08:00 - 09:00	0.001	0.001	0.001	ppm
09:00 - 10:00	0.001	0.001	0.001	ppm
10:00 - 11:00	0.001	0.001	0.001	ppm
Maximum 1 hr.	0.001	0.001	0.001	ppm
Average 24 hr.	0.001	0.001	0.001	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1)</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2)</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3)</sup> Start Time\* Parameter Outside The Scope of The Regulation of the Department of Industrial Work  
(Measurement By Mr. Tummarut Phadthakorn)

Approved

01/11/2022

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**บริษัท อีสเทิร์นไทย 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. LA65-R1055

Report No. R6510-1627 - R6510-1633

**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 : Horiba Model APSA-370 S/N 3XLWFYVJ  
SAMPLE NO. : 30943-30949  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	20-21/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	0.001	ppm
12:00 - 13:00	0.001	ppm
13:00 - 14:00	0.001	ppm
14:00 - 15:00	0.001	ppm
15:00 - 16:00	0.001	ppm
16:00 - 17:00	0.001	ppm
17:00 - 18:00	0.001	ppm
18:00 - 19:00	0.001	ppm
19:00 - 20:00	0.001	ppm
20:00 - 21:00	0.001	ppm
21:00 - 22:00	0.001	ppm
22:00 - 23:00	0.001	ppm
23:00 - 00:00	0.001	ppm
00:00 - 01:00	0.001	ppm
01:00 - 02:00	0.001	ppm
02:00 - 03:00	0.001	ppm
03:00 - 04:00	0.001	ppm
04:00 - 05:00	0.001	ppm
05:00 - 06:00	0.001	ppm
06:00 - 07:00	0.001	ppm
07:00 - 08:00	0.001	ppm
08:00 - 09:00	0.001	ppm
09:00 - 10:00	0.001	ppm
10:00 - 11:00	0.001	ppm
Maximum 1 hr.	0.001	ppm
Average 24 hr.	0.001	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	ppm

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

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

<sup>3)</sup> Start Time

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Work  
(Measurement By Mr. Tummarat Phumkham)



Approved By



(MS. THANATPORN KLINSOPON)

01/11/2022

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**บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด**

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โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095  
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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095  
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA65-R1055

Report No. R6510-1634 - R6510-1640

**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 : Horiba Model APNA-370 S/N XXSSJ4FM  
SAMPLE NO. : 30950-30956  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	14-15/10/2022	15-16/10/2022	16-17/10/2022	UNIT
11:00 - 12:00 <sup>2)</sup>	0.006	0.006	0.004	ppm
12:00 - 13:00	0.005	0.006	0.006	ppm
13:00 - 14:00	0.004	0.006	0.005	ppm
14:00 - 15:00	0.004	0.005	0.005	ppm
15:00 - 16:00	0.004	0.006	0.004	ppm
16:00 - 17:00	0.005	0.005	0.004	ppm
17:00 - 18:00	0.005	0.004	0.005	ppm
18:00 - 19:00	0.007	0.004	0.005	ppm
19:00 - 20:00	0.009	0.005	0.005	ppm
20:00 - 21:00	0.008	0.004	0.005	ppm
21:00 - 22:00	0.012	0.004	0.005	ppm
22:00 - 23:00	0.010	0.003	0.007	ppm
23:00 - 00:00	0.010	0.004	0.005	ppm
00:00 - 01:00	0.010	0.003	0.005	ppm
01:00 - 02:00	0.004	0.003	0.006	ppm
02:00 - 03:00	0.008	0.004	0.005	ppm
03:00 - 04:00	0.004	0.004	0.005	ppm
04:00 - 05:00	0.003	0.004	0.004	ppm
05:00 - 06:00	0.003	0.003	0.005	ppm
06:00 - 07:00	0.004	0.004	0.006	ppm
07:00 - 08:00	0.008	0.004	0.008	ppm
08:00 - 09:00	0.010	0.004	0.008	ppm
09:00 - 10:00	0.007	0.005	0.007	ppm
10:00 - 11:00	0.006	0.005	0.008	ppm
Maximum 1 hr.	0.012	0.006	0.008	ppm
Average 24 hr.	0.007	0.004	0.006	ppm
Standard (1 hr.) <sup>1)</sup>	0.17	0.17	0.17	ppm

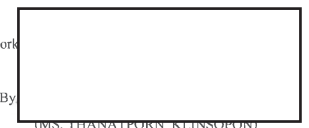
**REMARK :** <sup>1)</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

<sup>2)</sup> Start Time

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Work  
(Measurement By Mr. Tummarat Phumkham)



Approved By



(MS. THANATPORN KLINSOPON)

01/11/2022

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บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด

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



EASTERN THAI CONSULTING 1992 CO., LTD.

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095  
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA65-R1055

Report No. R6510-1634 - R6510-1640

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 : วัดหนองแฟบ  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM

SAMPLE NO. : 30950-30956  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	17-18/10/2022	18-19/10/2022	19-20/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.008	0.009	0.008	ppm
12:00 - 13:00	0.007	0.010	0.008	ppm
13:00 - 14:00	0.006	0.009	0.011	ppm
14:00 - 15:00	0.006	0.007	0.009	ppm
15:00 - 16:00	0.005	0.005	0.006	ppm
16:00 - 17:00	0.004	0.005	0.005	ppm
17:00 - 18:00	0.005	0.005	0.007	ppm
18:00 - 19:00	0.006	0.007	0.011	ppm
19:00 - 20:00	0.005	0.008	0.007	ppm
20:00 - 21:00	0.006	0.006	0.009	ppm
21:00 - 22:00	0.009	0.007	0.005	ppm
22:00 - 23:00	0.008	0.015	0.019	ppm
23:00 - 00:00	0.014	0.013	0.015	ppm
00:00 - 01:00	0.010	0.010	0.007	ppm
01:00 - 02:00	0.006	0.006	0.007	ppm
02:00 - 03:00	0.008	0.006	0.005	ppm
03:00 - 04:00	0.008	0.005	0.004	ppm
04:00 - 05:00	0.006	0.006	0.004	ppm
05:00 - 06:00	0.005	0.005	0.004	ppm
06:00 - 07:00	0.004	0.005	0.004	ppm
07:00 - 08:00	0.006	0.005	0.005	ppm
08:00 - 09:00	0.009	0.008	0.007	ppm
09:00 - 10:00	0.009	0.010	0.007	ppm
10:00 - 11:00	0.008	0.007	0.010	ppm
Maximum 1 hr.	0.014	0.015	0.019	ppm
Average 24 hr.	0.007	0.007	0.008	ppm
Standard (1 hr.) <sup>11</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

<sup>12</sup> Start Time

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Pongkham)



Approved By...

01/11/2022

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บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095  
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA65-R1055

Report No. R6510-1634 - R6510-1640

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 : วัดหนองแฟบ  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM

SAMPLE NO. : 30950-30956  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	20-21/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.014	ppm
12:00 - 13:00	0.011	ppm
13:00 - 14:00	0.009	ppm
14:00 - 15:00	0.009	ppm
15:00 - 16:00	0.012	ppm
16:00 - 17:00	0.006	ppm
17:00 - 18:00	0.008	ppm
18:00 - 19:00	0.009	ppm
19:00 - 20:00	0.009	ppm
20:00 - 21:00	0.012	ppm
21:00 - 22:00	0.014	ppm
22:00 - 23:00	0.009	ppm
23:00 - 00:00	0.011	ppm
00:00 - 01:00	0.013	ppm
01:00 - 02:00	0.012	ppm
02:00 - 03:00	0.009	ppm
03:00 - 04:00	0.005	ppm
04:00 - 05:00	0.004	ppm
05:00 - 06:00	0.005	ppm
06:00 - 07:00	0.006	ppm
07:00 - 08:00	0.009	ppm
08:00 - 09:00	0.016	ppm
09:00 - 10:00	0.013	ppm
10:00 - 11:00	0.001	ppm
Maximum 1 hr.	0.016	ppm
Average 24 hr.	0.009	ppm
Standard (1 hr.) <sup>11</sup>	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

<sup>12</sup> Start Time

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Pongkham)



Approved By...

01/11/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6510036

Report No. 6510-0686 - 6510-0692

## 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 NAME : บริเวณชุมชนชาวกูหลม  
RECEIVED DATE : 31/10/2022 SAMPLE NO. : A65100686 - A65100692  
TESTED DATE : 31/10/2022-04/11/2022 REPORTED DATE : 08/11/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1)</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	14-15/10/2022	0.060	0.12	mg/m <sup>3</sup>
		15-16/10/2022	0.036	0.12	mg/m <sup>3</sup>
		16-17/10/2022	0.034	0.12	mg/m <sup>3</sup>
		17-18/10/2022	0.065	0.12	mg/m <sup>3</sup>
		18-19/10/2022	0.083	0.12	mg/m <sup>3</sup>
		19-20/10/2022	0.058	0.12	mg/m <sup>3</sup>
		20-21/10/2022	0.041	0.12	mg/m <sup>3</sup>

**REMARK:** <sup>1)</sup> 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 Thanaporn Klinsonpon)

08/11/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA65-R1055

Report No. R6510-1599 - R6510-1605

## 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 : วัดชาวกูหลม  
PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 30915-30921  
DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 14-21/10/2022  
INSTRUMENT : API Model MI00E S/N 603 RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	14-15/10/2022	15-16/10/2022	16-17/10/2022	UNIT
11:00 - 12:00	0.014	0.014	0.012	ppm
12:00 - 13:00	0.014	0.015	0.013	ppm
13:00 - 14:00	0.014	0.015	0.014	ppm
14:00 - 15:00	0.014	0.014	0.014	ppm
15:00 - 16:00	0.014	0.015	0.015	ppm
16:00 - 17:00	0.014	0.014	0.015	ppm
17:00 - 18:00	0.014	0.014	0.015	ppm
18:00 - 19:00	0.014	0.014	0.015	ppm
19:00 - 20:00	0.014	0.014	0.015	ppm
20:00 - 21:00	0.014	0.014	0.016	ppm
21:00 - 22:00	0.014	0.014	0.016	ppm
22:00 - 23:00	0.014	0.014	0.016	ppm
23:00 - 00:00	0.014	0.015	0.016	ppm
00:00 - 01:00	0.014	0.014	0.016	ppm
01:00 - 02:00	0.014	0.014	0.016	ppm
02:00 - 03:00	0.013	0.013	0.016	ppm
03:00 - 04:00	0.012	0.013	0.016	ppm
04:00 - 05:00	0.013	0.014	0.016	ppm
05:00 - 06:00	0.013	0.013	0.016	ppm
06:00 - 07:00	0.013	0.013	0.016	ppm
07:00 - 08:00	0.013	0.014	0.016	ppm
08:00 - 09:00	0.013	0.014	0.016	ppm
09:00 - 10:00	0.014	0.014	0.016	ppm
10:00 - 11:00	0.014	0.014	0.016	ppm
Maximum 1 hr.	0.014	0.015	0.016	ppm
Average 24 hr.	0.014	0.014	0.015	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	0.12	0.12	ppm

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

01/11/2022

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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 อีเมล : 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. LA65-R1055

Report No. R6510-1599 - R6510-1605

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 : วัดซาทลูกหญ้า  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 30915-30921  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	17-18/10/2022	18-19/10/2022	19-20/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	0.016	0.017	0.017	ppm
12:00 - 13:00	0.017	0.017	0.017	ppm
13:00 - 14:00	0.017	0.017	0.017	ppm
14:00 - 15:00	0.017	0.017	0.017	ppm
15:00 - 16:00	0.017	0.017	0.017	ppm
16:00 - 17:00	0.017	0.017	0.017	ppm
17:00 - 18:00	0.017	0.017	0.017	ppm
18:00 - 19:00	0.017	0.017	0.018	ppm
19:00 - 20:00	0.017	0.018	0.018	ppm
20:00 - 21:00	0.017	0.017	0.018	ppm
21:00 - 22:00	0.017	0.017	0.017	ppm
22:00 - 23:00	0.017	0.017	0.017	ppm
23:00 - 00:00	0.017	0.017	0.017	ppm
00:00 - 01:00	0.017	0.017	0.017	ppm
01:00 - 02:00	0.017	0.017	0.017	ppm
02:00 - 03:00	0.017	0.017	0.017	ppm
03:00 - 04:00	0.017	0.017	0.017	ppm
04:00 - 05:00	0.017	0.017	0.017	ppm
05:00 - 06:00	0.017	0.017	0.017	ppm
06:00 - 07:00	0.017	0.017	0.017	ppm
07:00 - 08:00	0.017	0.017	0.017	ppm
08:00 - 09:00	0.017	0.017	0.017	ppm
09:00 - 10:00	0.017	0.017	0.017	ppm
10:00 - 11:00	0.017	0.017	0.017	ppm
Maximum 1 hr.	0.017	0.018	0.018	ppm
Average 24 hr.	0.017	0.017	0.017	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	0.12	0.12	ppm

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

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

<sup>3)</sup> Start Time

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



Approved By

01/11/2022

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095  
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA65-R1055

Report No. R6510-1599 - R6510-1605

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 : วัดซาทลูกหญ้า  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 30915-30921  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	20-21/10/2022	UNIT
11:00 - 12:00 <sup>1)</sup>	0.017	ppm
12:00 - 13:00	0.017	ppm
13:00 - 14:00	0.017	ppm
14:00 - 15:00	0.017	ppm
15:00 - 16:00	0.017	ppm
16:00 - 17:00	0.017	ppm
17:00 - 18:00	0.017	ppm
18:00 - 19:00	0.018	ppm
19:00 - 20:00	0.017	ppm
20:00 - 21:00	0.017	ppm
21:00 - 22:00	0.017	ppm
22:00 - 23:00	0.017	ppm
23:00 - 00:00	0.017	ppm
00:00 - 01:00	0.017	ppm
01:00 - 02:00	0.017	ppm
02:00 - 03:00	0.017	ppm
03:00 - 04:00	0.017	ppm
04:00 - 05:00	0.017	ppm
05:00 - 06:00	0.017	ppm
06:00 - 07:00	0.017	ppm
07:00 - 08:00	0.017	ppm
08:00 - 09:00	0.017	ppm
09:00 - 10:00	0.017	ppm
10:00 - 11:00	0.017	ppm
Maximum 1 hr.	0.018	ppm
Average 24 hr.	0.017	ppm
Standard (1 hr.) <sup>1)</sup>	0.30	ppm
Standard (Average 24 hr.) <sup>2)</sup>	0.12	ppm

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

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

<sup>3)</sup> Start Time

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



Approved By

01/11/2022

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Request No. LA65-R1055

Report No. R6510-1606 - R6510-1612

## 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 2004

SAMPLE NO. : 30922-30928  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	14-15/10/2022	15-16/10/2022	16-17/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.009	0.002	0.002	ppm
12:00 - 13:00	0.003	0.002	0.002	ppm
13:00 - 14:00	0.002	0.002	0.002	ppm
14:00 - 15:00	0.002	0.003	0.002	ppm
15:00 - 16:00	0.002	0.002	0.002	ppm
16:00 - 17:00	0.002	0.002	0.003	ppm
17:00 - 18:00	0.003	0.003	0.003	ppm
18:00 - 19:00	0.004	0.004	0.004	ppm
19:00 - 20:00	0.006	0.003	0.004	ppm
20:00 - 21:00	0.005	0.003	0.004	ppm
21:00 - 22:00	0.005	0.003	0.003	ppm
22:00 - 23:00	0.006	0.003	0.003	ppm
23:00 - 00:00	0.005	0.003	0.003	ppm
00:00 - 01:00	0.005	0.002	0.003	ppm
01:00 - 02:00	0.003	0.002	0.003	ppm
02:00 - 03:00	0.003	0.001	0.003	ppm
03:00 - 04:00	0.003	0.002	0.003	ppm
04:00 - 05:00	0.003	0.002	0.002	ppm
05:00 - 06:00	0.003	0.002	0.002	ppm
06:00 - 07:00	0.004	0.002	0.003	ppm
07:00 - 08:00	0.009	0.002	0.004	ppm
08:00 - 09:00	0.009	0.003	0.005	ppm
09:00 - 10:00	0.006	0.003	0.005	ppm
10:00 - 11:00	0.001	0.003	0.005	ppm
Maximum 1 hr.	0.009	0.004	0.005	ppm
Average 24 hr.	0.004	0.002	0.003	ppm
Standard (1 hr.) <sup>11</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>12</sup> Start Time\* Parameter Outside The Scope of The Regulation of the Department of Industrial Works  
(Measurement By Mr. Tummarat Pongkham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

01/11/2022

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Request No. LA65-R1055

Report No. R6510-1606 - R6510-1612

## 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 2004

SAMPLE NO. : 30922-30928  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	17-18/10/2022	18-19/10/2022	19-20/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.003	0.002	0.002	ppm
12:00 - 13:00	0.002	0.001	0.002	ppm
13:00 - 14:00	0.002	0.001	0.001	ppm
14:00 - 15:00	0.001	0.001	0.001	ppm
15:00 - 16:00	0.001	0.011	0.001	ppm
16:00 - 17:00	0.009	0.015	0.003	ppm
17:00 - 18:00	0.016	0.014	0.003	ppm
18:00 - 19:00	0.022	0.016	0.023	ppm
19:00 - 20:00	0.020	0.019	0.029	ppm
20:00 - 21:00	0.012	0.011	0.014	ppm
21:00 - 22:00	0.016	0.027	0.027	ppm
22:00 - 23:00	0.017	0.023	0.014	ppm
23:00 - 00:00	0.010	0.015	0.009	ppm
00:00 - 01:00	0.007	0.010	0.004	ppm
01:00 - 02:00	0.004	0.004	0.003	ppm
02:00 - 03:00	0.004	0.002	0.002	ppm
03:00 - 04:00	0.003	0.002	0.001	ppm
04:00 - 05:00	0.002	0.002	0.001	ppm
05:00 - 06:00	0.002	0.002	0.001	ppm
06:00 - 07:00	0.002	0.002	0.002	ppm
07:00 - 08:00	0.003	0.003	0.003	ppm
08:00 - 09:00	0.005	0.005	0.005	ppm
09:00 - 10:00	0.004	0.005	0.005	ppm
10:00 - 11:00	0.002	0.002	0.003	ppm
Maximum 1 hr.	0.022	0.027	0.029	ppm
Average 24 hr.	0.007	0.008	0.007	ppm
Standard (1 hr.) <sup>11</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>12</sup> Start Time\* Parameter Outside The Scope of The Regulation of the Department of Industrial Works  
(Measurement By Mr. Tummarat Pongkham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

01/11/2022

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Request No. LA65-R1055

Report No. R6510-1606 - R6510-1612

## 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 : วัดจากลูกเหวี่ยง  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model T200 S/N 2004

SAMPLE NO. : 30922-30928  
SAMPLING DATE : 14-21/10/2022  
RECEIVED DATE : 26/10/2022  
REPORTED DATE : 01/11/2022

TIME / DATE	20-21/10/2022	UNIT
11:00 - 12:00 <sup>12</sup>	0.002	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	0.003	ppm
16:00 - 17:00	0.004	ppm
17:00 - 18:00	0.021	ppm
18:00 - 19:00	0.029	ppm
19:00 - 20:00	0.025	ppm
20:00 - 21:00	0.024	ppm
21:00 - 22:00	0.018	ppm
22:00 - 23:00	0.016	ppm
23:00 - 00:00	0.020	ppm
00:00 - 01:00	0.013	ppm
01:00 - 02:00	0.012	ppm
02:00 - 03:00	0.005	ppm
03:00 - 04:00	0.003	ppm
04:00 - 05:00	0.002	ppm
05:00 - 06:00	0.002	ppm
06:00 - 07:00	0.003	ppm
07:00 - 08:00	0.005	ppm
08:00 - 09:00	0.010	ppm
09:00 - 10:00	0.007	ppm
10:00 - 11:00	0.005	ppm
Maximum 1 hr.	0.029	ppm
Average 24 hr.	0.010	ppm
Standard (1 hr.) <sup>11</sup>	0.17	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>12</sup> Start Time\* Parameter Outside The Scope of The Regulation in The Department of Industrial Work  
(Measurement By Mr. Tummarat Phumthong)

Approved By

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Ref. No. AR409/10/22

R-Pro-0212/2020

Report No. 2210/330

## รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ

โครงการ : บริษัท ทีทีที ออโต้ เมคคอล จำกัด วันที่เก็บตัวอย่าง : 17-18 ตุลาคม 2565  
ที่ตั้งโครงการ : นิคมอุตสาหกรรมดับบลิวเอชเอ ตะวันออก (นาตาพุด) วันที่รับตัวอย่าง : 19 ตุลาคม 2565  
เลขที่ 8 ถนนผังเมืองเฉพาะ 3-1 ตำบลห้วยโป่ง วันที่วิเคราะห์ : 19-31 ตุลาคม 2565  
อำเภอเมืองระยอง จังหวัดระยอง วันที่ออกรายงาน : 2 พฤศจิกายน 2565  
ชื่อ/ที่อยู่ลูกค้า : บริษัท เอ็นพีซี เซฟตี้ แอนด์ เอนvironment เมทอลล์ เซอร์วิส จำกัด  
ผู้เก็บตัวอย่าง : นายฐิตินันท์ เรืองรัมย์  
บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

พารามิเตอร์	วิธีเก็บตัวอย่าง	วิธีวิเคราะห์	บริเวณบริเวณโครงการด้านทิศเหนือ	ค่ามาตรฐาน <sup>(1)</sup>
VOCs (µg/m <sup>3</sup> )				
1. Propene	Canister	U.S. EPA Method TO-15	<0.09	-
2. Dichlorodifluoromethane	Canister	U.S. EPA Method TO-15	2.8	-
3. Chlorodifluoromethane	Canister	U.S. EPA Method TO-15	1.5	-
4. 1,2-Dichlorotetrafluoroethane	Canister	U.S. EPA Method TO-15	<0.25	-
5. Chloromethane	Canister	U.S. EPA Method TO-15	2.5	-
6. Isobutene	Canister	U.S. EPA Method TO-15	<0.03	-
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	5.8	ไม่เกิน 860
10. Bromomethane	Canister	U.S. EPA Method TO-15	<0.08	ไม่เกิน 190
11. Chloroethane	Canister	U.S. EPA Method TO-15	<0.03	-
12. Trichlorofluoromethane	Canister	U.S. EPA Method TO-15	1.3	-
13. Pentane	Canister	U.S. EPA Method TO-15	1.6	-
14. Ethanol	Canister	U.S. EPA Method TO-15	6.3	-
15. Isoprene	Canister	U.S. EPA Method TO-15	<0.06	-
16. Acrolein	Canister	U.S. EPA Method TO-15	<0.18	ไม่เกิน 0.55
17. Propanal	Canister	U.S. EPA Method TO-15	<0.08	-
18. 1,1-Dichloroethylene	Canister	U.S. EPA Method TO-15	<0.05	-
19. CFC-113	Canister	U.S. EPA Method TO-15	<0.13	-
20. Acetone	Canister	U.S. EPA Method TO-15	18	ไม่เกิน 11,880 <sup>(12)</sup>
21. Methyl Iodide	Canister	U.S. EPA Method TO-15	<0.15	-
22. Carbondisulfide	Canister	U.S. EPA Method TO-15	7.5	ไม่เกิน 100 <sup>(12)</sup>
23. 2-Propanol	Canister	U.S. EPA Method TO-15	<0.32	-
24. Acetonitrile	Canister	U.S. EPA Method TO-15	<0.07	-
25. Dichloromethane	Canister	U.S. EPA Method TO-15	1.2	ไม่เกิน 210
26. Cyclopentane	Canister	U.S. EPA Method TO-15	<0.09	-
27. MTBE	Canister	U.S. EPA Method TO-15	<0.06	-
28. Hexane	Canister	U.S. EPA Method TO-15	1.9	-
29. Methacrolein	Canister	U.S. EPA Method TO-15	<0.24	-
30. 1,1-Dichloroethane	Canister	U.S. EPA Method TO-15	<0.05	-
31. Vinyl Acetate	Canister	U.S. EPA Method TO-15	<0.38	-
32. 1-Propanol	Canister	U.S. EPA Method TO-15	<0.06	-
33. Butanal	Canister	U.S. EPA Method TO-15	<0.11	-
34. Methyl Vinyl Ketone	Canister	U.S. EPA Method TO-15	<0.30	-
35. cis-1,2-Dichloroethene	Canister	U.S. EPA Method TO-15	<0.08	-
36. MEK	Canister	U.S. EPA Method TO-15	<0.27	-
37. Chloroform	Canister	U.S. EPA Method TO-15	<0.05	ไม่เกิน 57
38. 1,1,1-Trichloroethane	Canister	U.S. EPA Method TO-15	<0.11	-
39. Cyclohexane	Canister	U.S. EPA Method TO-15	<0.04	-
40. Carbon Tetrachloride	Canister	U.S. EPA Method TO-15	<0.18	ไม่เกิน 150
41. Benzene	Canister	U.S. EPA Method TO-15	1.4	ไม่เกิน 7.6
42. 1,2-Dichloroethane	Canister	U.S. EPA Method TO-15	<0.09	ไม่เกิน 48
43. Trichloroethylene	Canister	U.S. EPA Method TO-15	<0.23	ไม่เกิน 130



### รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ

พารามิเตอร์	วิธีเก็บตัวอย่าง	วิธีวิเคราะห์	บริเวณริมรั้วโครงการด้านทิศเหนือ	ค่ามาตรฐาน <sup>(1)</sup>
VOCs (µg/m <sup>3</sup> )				
44. 1-Butanol	Canister	U.S. EPA Method TO-15	<0.32	-
45. 1,2-Dichloropropane	Canister	U.S. EPA Method TO-15	<0.19	ไม่เกิน 82
46. 2-Pentanone	Canister	U.S. EPA Method TO-15	<0.20	-
47. Pentanal	Canister	U.S. EPA Method TO-15	<0.06	-
48. 3-Pentanone	Canister	U.S. EPA Method TO-15	<0.25	-
49. 1,4-Dioxane	Canister	U.S. EPA Method TO-15	<0.20	ไม่เกิน 860
50. Bromodichloromethane	Canister	U.S. EPA Method TO-15	<0.25	-
51. trans-1,3-Dichloropropene	Canister	U.S. EPA Method TO-15	<0.15	-
52. 4-Methyl-2-Pentanone	Canister	U.S. EPA Method TO-15	<0.12	-
53. Toluene	Canister	U.S. EPA Method TO-15	4.4	-
54. cis-1,3-Dichloropropene	Canister	U.S. EPA Method TO-15	<0.25	-
55. 1,1,2-Trichloroethane	Canister	U.S. EPA Method TO-15	<0.24	-
56. Tetrachloroethylene	Canister	U.S. EPA Method TO-15	<0.39	ไม่เกิน 400
57. 3-Hexanone	Canister	U.S. EPA Method TO-15	<0.33	-
58. 2-Hexanone	Canister	U.S. EPA Method TO-15	<0.20	-
59. Hexanal	Canister	U.S. EPA Method TO-15	<0.30	-
60. 1,2-Dibromomethane	Canister	U.S. EPA Method TO-15	<0.51	ไม่เกิน 370
61. Chlorobenzene	Canister	U.S. EPA Method TO-15	<0.23	-
62. Ethylbenzene	Canister	U.S. EPA Method TO-15	1.3	-
63. m,p-Xylene	Canister	U.S. EPA Method TO-15	1.3	-
64. o-Xylene	Canister	U.S. EPA Method TO-15	<0.16	-
65. Styrene	Canister	U.S. EPA Method TO-15	<0.07	-
66. Bromoform	Canister	U.S. EPA Method TO-15	<0.87	-
67. 1,1,2,2-Tetrachloroethane	Canister	U.S. EPA Method TO-15	<0.64	ไม่เกิน 83
68. 1,3,5-Trimethylbenzene	Canister	U.S. EPA Method TO-15	<0.49	-
69. 1,2,4-Trimethylbenzene	Canister	U.S. EPA Method TO-15	<0.42	-
70. 1,3-Dichlorobenzene	Canister	U.S. EPA Method TO-15	<0.39	-
71. 1,4-Dichlorobenzene	Canister	U.S. EPA Method TO-15	<0.47	ไม่เกิน 1,100
72. 1,2,3-Trimethylbenzene	Canister	U.S. EPA Method TO-15	<0.27	-
73. Benzyl Chloride	Canister	U.S. EPA Method TO-15	<0.25	ไม่เกิน 12
74. 1,2-Dichlorobenzene	Canister	U.S. EPA Method TO-15	<0.35	-
75. 1,2,4-Trichlorobenzene	Canister	U.S. EPA Method TO-15	<0.13	-
76. Acrylonitrile	Canister	U.S. EPA Method TO-15	<0.15	ไม่เกิน 10
77. Methanol	Canister	U.S. EPA Method TO-15	11	-
78. Total Xylene	Canister	U.S. EPA Method TO-15	1.3	-

#### หมายเหตุ:

- ค่ามาตรฐาน<sup>(1)</sup> = ประกาศกรมควบคุมมลพิษ เรื่อง กำหนดค่าเฝ้าระวังสำหรับสารอินทรีย์ระเหยง่ายในบรรยากาศโดยทั่วไปในเขต 24 ชั่วโมง พ.ศ. 2552  
ค่ามาตรฐาน<sup>(2)</sup> = ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง กำหนดมาตรฐานก๊าซคาร์บอนไดออกไซด์ในบรรยากาศโดยทั่วไป พ.ศ. 2560  
ค่ามาตรฐาน<sup>(3)</sup> = เทียบเคียง Ontario's Ambient Air Quality Criteria, 2019

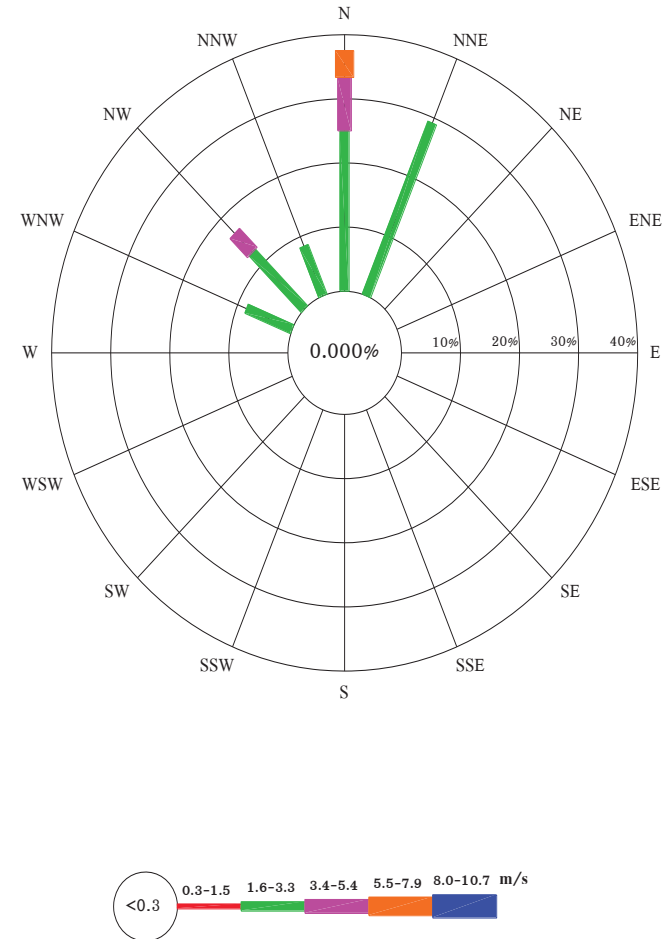
ผลการตรวจวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์เท่านั้น

บริษัทฯ ขอสงวนผลการตรวจวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากบริษัทเป็นลายลักษณ์อักษร

(นางสาวณัฏฐกมล มีระหาญ)  
เจ้าหน้าที่ประจำห้องวิเคราะห์  
๒ / ๗ / ๒๕

(นางสาวเพ็ญภา วิชาสวัช)  
ผู้ควบคุมห้องวิเคราะห์  
๒ / ๗ / ๒๕

F1208-1/20-08-21/AIR2204



ผังแสดงความเร็วและทิศทางลม บริเวณริมรั้วโครงการด้านทิศเหนือ  
ระหว่างวันที่ 17-18 ตุลาคม 2565



## Wind Speed &amp; Wind Direction

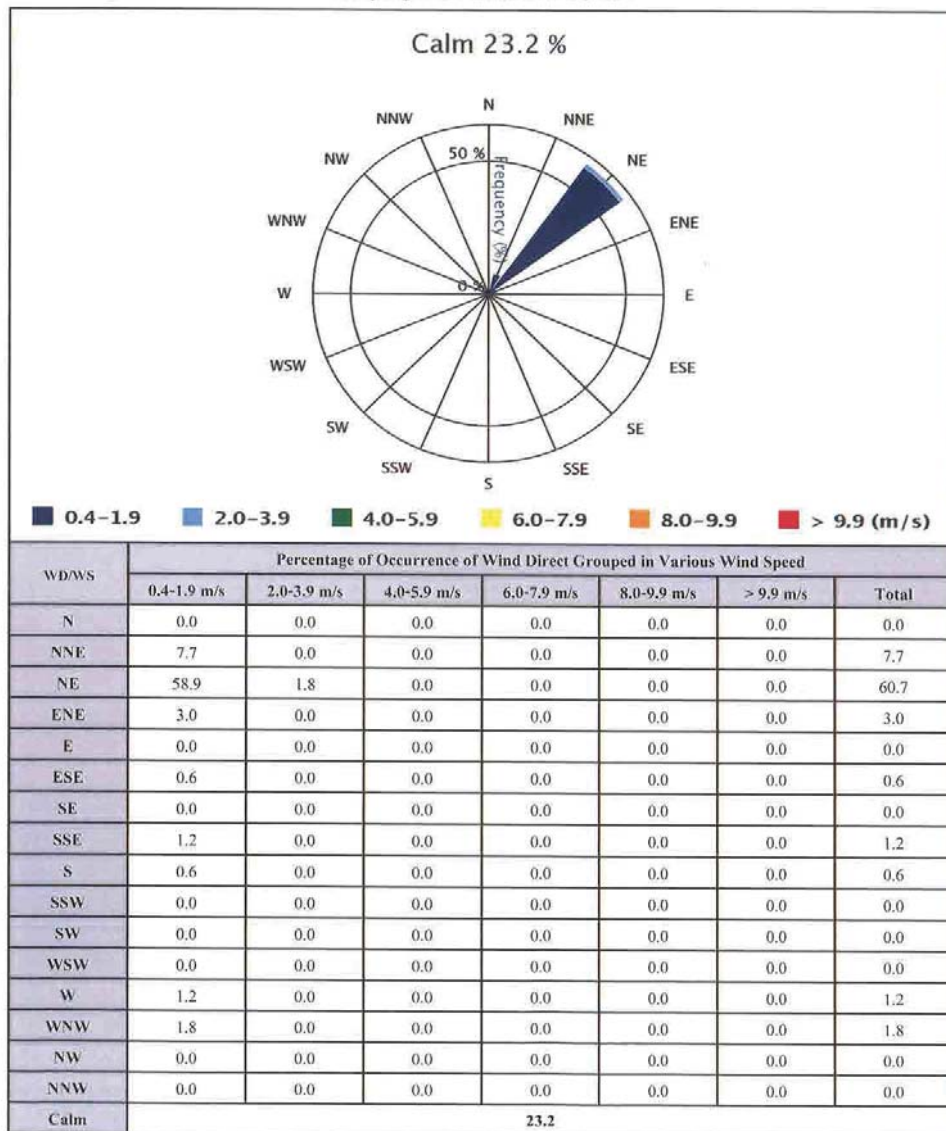
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981

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

Sampling Date : October 14-21, 2022



## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981

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

Sampling Date : October 14-21, 2022

Time	October 14-15, 2022		October 15-16, 2022		October 16-17, 2022		October 17-18, 2022		October 18-19, 2022		October 19-20, 2022		October 20-21, 2022	
	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	1.8	NE	1.8	NE	1.8	NE	1.3	NE	1.3	NE	1.8	NE	1.3	NE
12:00-13:00	1.3	NE	1.8	NE	1.8	NE	1.8	NE	1.8	NE	1.8	NE	0.9	NE
13:00-14:00	1.8	NNE	1.3	NE	1.8	NE	1.3	NE	1.3	NE	1.3	NE	0.4	NE
14:00-15:00	1.8	NNE	0.9	NE	1.8	NE	0.9	NE	0.9	NE	1.3	NE	0.0	-
15:00-16:00	1.3	NE	1.8	NE	1.8	NE	0.9	NE	0.9	S	0.9	NE	0.0	-
16:00-17:00	1.8	NE	1.8	NE	1.3	NE	0.9	SSE	0.4	W	0.9	NE	0.0	-
17:00-18:00	1.3	NNE	1.8	NE	1.3	NE	0.4	SSE	0.4	WNW	0.0	-	0.0	-
18:00-19:00	0.9	NE	1.8	NE	0.9	NE	0.4	W	0.4	WNW	0.0	-	0.0	-
19:00-20:00	0.0	-	2.7	NE	0.4	NE	0.0	-	0.0	-	0.0	-	0.0	-
20:00-21:00	0.4	NNE	1.3	NE	0.9	NE	0.0	-	0.0	-	0.0	-	0.0	-
21:00-22:00	0.4	NNE	1.3	NE	1.3	NE	0.0	-	0.0	-	0.0	-	0.0	-
22:00-23:00	0.4	NNE	1.3	NE	0.9	NE	0.0	-	0.0	-	0.0	-	0.0	-
23:00-00:00	0.4	NNE	1.3	NE	0.9	NE	0.4	WNW	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	1.3	NE	0.9	NE	0.9	NE	0.4	NNE	0.4	ESE	0.4	ENE
01:00-02:00	0.0	-	1.3	NE	0.4	ENE	0.9	NE	0.4	NNE	0.9	NE	0.0	-
02:00-03:00	0.0	-	1.3	NE	0.0	-	0.9	NE	0.4	NNE	0.9	NE	0.0	-
03:00-04:00	0.0	-	0.9	NE	0.0	-	0.9	NE	0.4	NE	0.9	NE	0.0	-
04:00-05:00	0.0	-	0.4	NE	0.4	ENE	0.4	NE	0.9	NE	1.3	NE	0.0	-
05:00-06:00	0.4	NNE	0.9	NE	0.9	NE	0.4	NE	0.9	NE	0.9	NE	0.0	-
06:00-07:00	0.4	NNE	1.3	NE	0.9	NE	0.4	NE	0.9	NE	1.3	NE	0.4	ENE
07:00-08:00	0.4	NNE	1.8	NE	0.9	NE	0.9	NE	1.3	NE	0.9	NE	0.4	ENE
08:00-09:00	0.9	NE	1.3	NE	1.3	NE	1.3	NE	1.3	NE	1.3	NE	0.9	NE
09:00-10:00	1.3	NE	1.8	NE	1.8	NE	1.3	NE	1.3	NE	1.8	NE	0.9	NE
10:00-11:00	1.3	NE	2.2	NE	1.8	NE	2.2	NE	1.3	NE	1.3	NE	0.9	NE

## Wind Speed &amp; Wind Direction

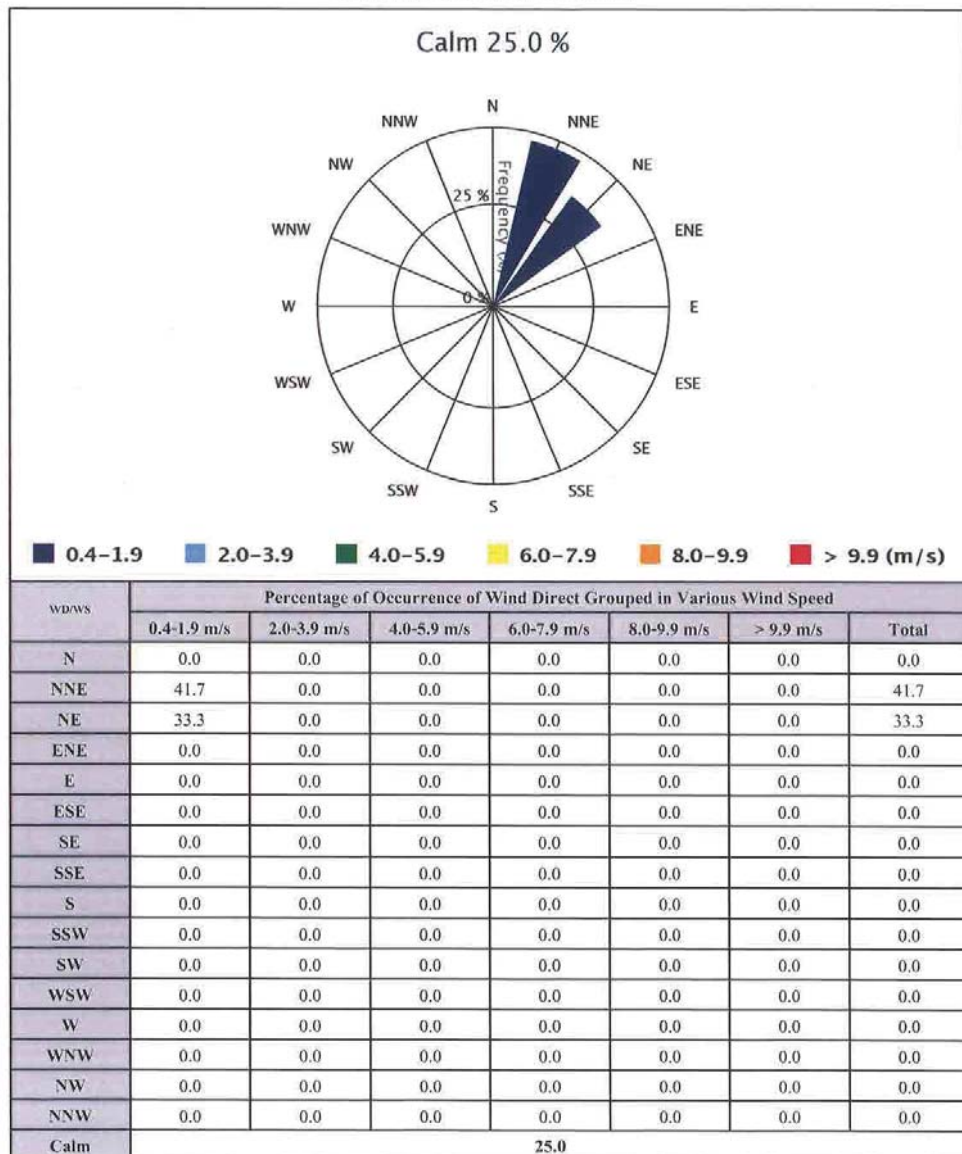
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-1

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

Sampling Date : October 14-15, 2022



## Wind Speed &amp; Wind Direction

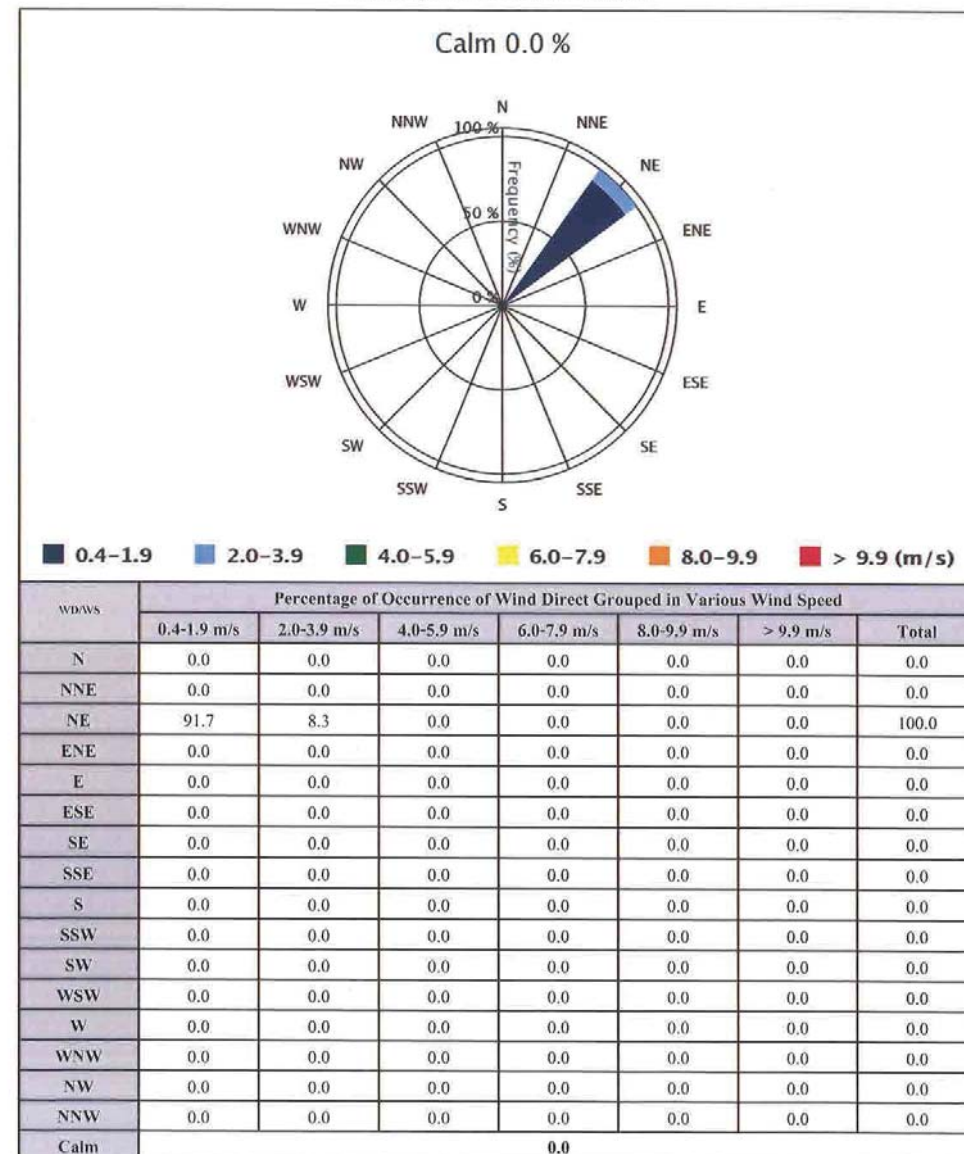
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-2

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

Sampling Date : October 15-16, 2022





### Wind Speed & Wind Direction

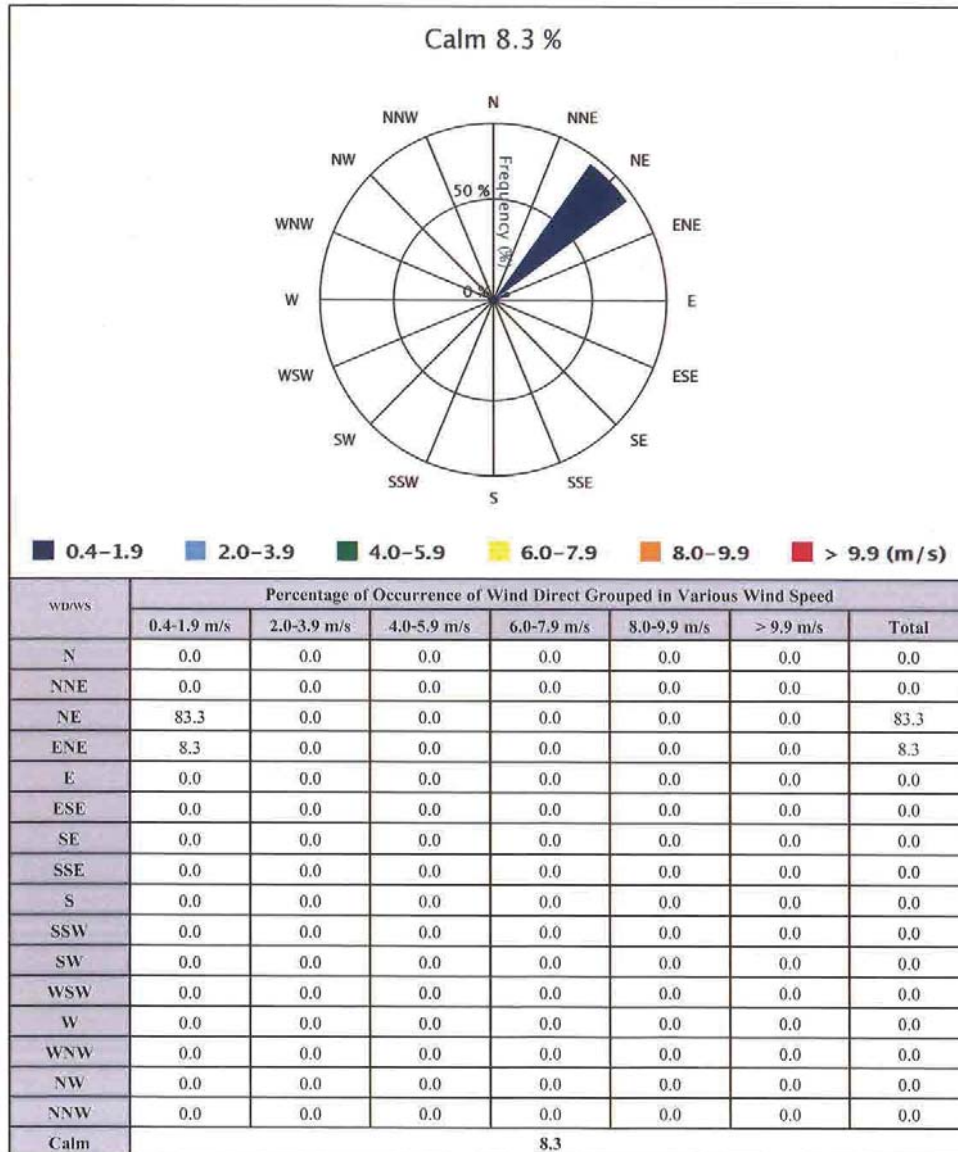
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-3

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

Sampling Date : October 16-17, 2022



### Wind Speed & Wind Direction

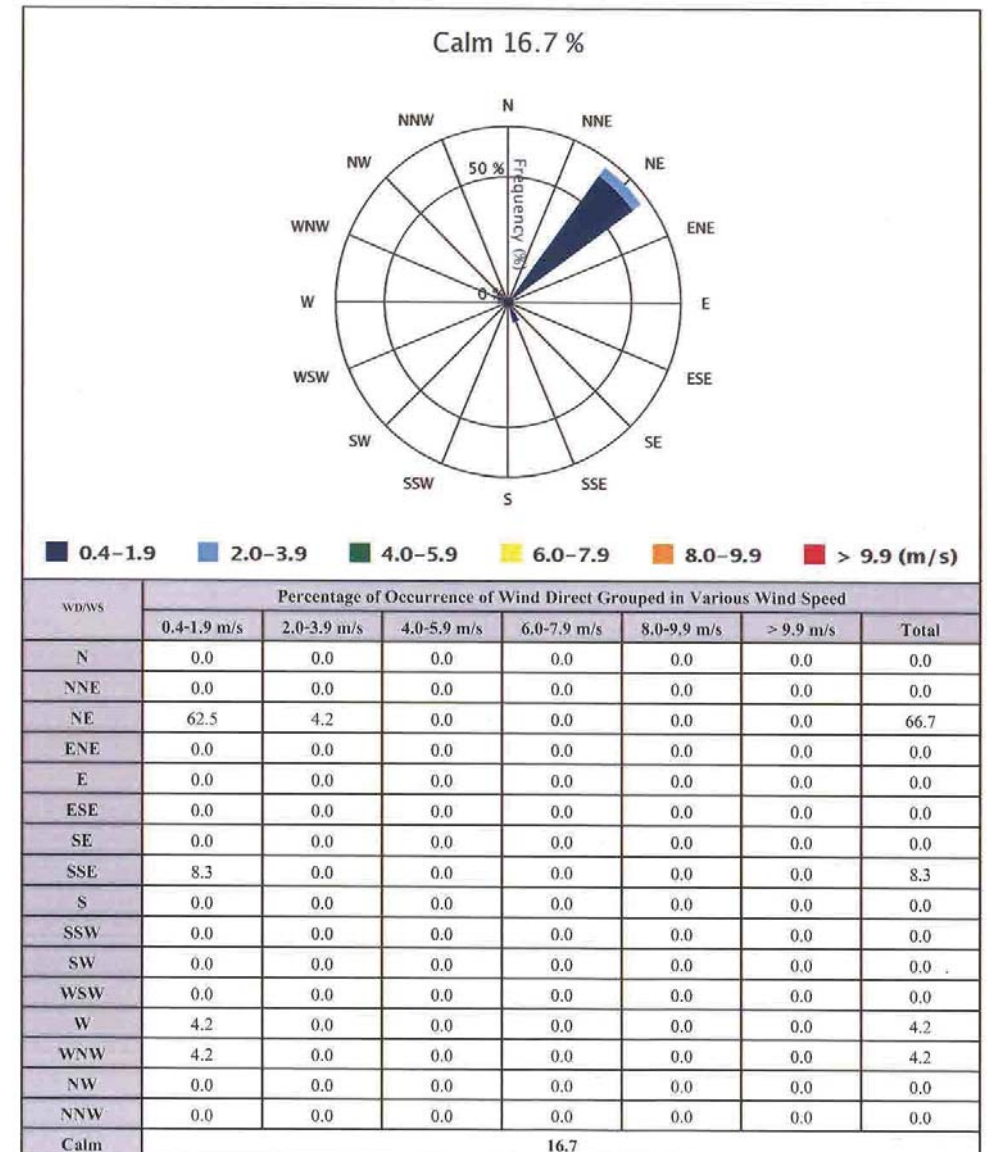
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-4

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

Sampling Date : October 17-18, 2022



## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

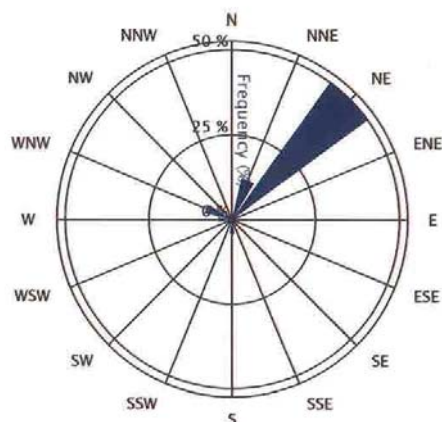
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-5

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

Sampling Date : October 18-19, 2022

Calm 20.8 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 &gt; 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	12.5	0.0	0.0	0.0	0.0	0.0	12.5
NE	50.0	0.0	0.0	0.0	0.0	0.0	50.0
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	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	4.2	0.0	0.0	0.0	0.0	0.0	4.2
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	4.2	0.0	0.0	0.0	0.0	0.0	4.2
WNW	8.3	0.0	0.0	0.0	0.0	0.0	8.3
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	20.8						

## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

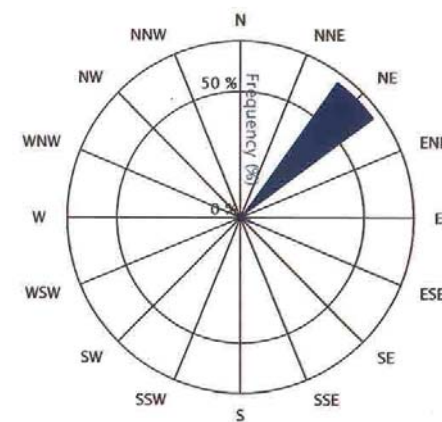
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-6

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

Sampling Date : October 19-20, 2022

Calm 29.2 %



0.4-1.9 2.0-3.9 4.0-5.9 6.0-7.9 8.0-9.9 &gt; 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	66.7	0.0	0.0	0.0	0.0	0.0	66.7
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	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	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	29.2						



## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

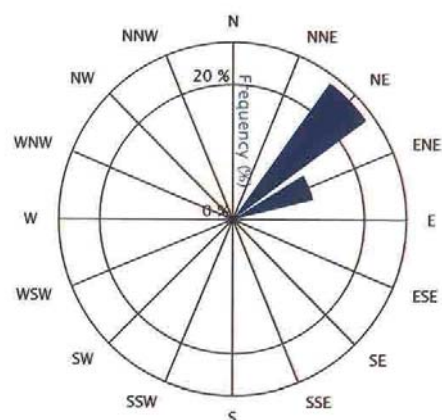
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30981-7

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

Sampling Date : October 20-21, 2022

Calm 62.5 %



■ 0.4-1.9 ■ 2.0-3.9 ■ 4.0-5.9 ■ 6.0-7.9 ■ 8.0-9.9 ■ &gt; 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	25.0	0.0	0.0	0.0	0.0	0.0	25.0
ENE	12.5	0.0	0.0	0.0	0.0	0.0	12.5
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	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	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	62.5						

## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

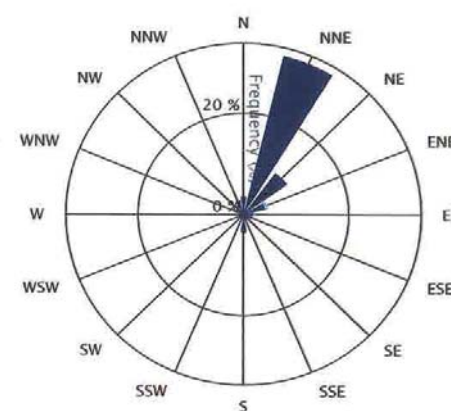
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980

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

Sampling Date : October 14-21, 2022

Calm 33.9 %



■ 0.4-1.9 ■ 2.0-3.9 ■ 4.0-5.9 ■ 6.0-7.9 ■ 8.0-9.9 ■ &gt; 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	3.6	0.0	0.0	0.0	0.0	0.0	3.6
NNE	32.1	0.0	0.0	0.0	0.0	0.0	32.1
NE	10.1	0.0	0.0	0.0	0.0	0.0	10.1
ENE	4.2	0.6	0.0	0.0	0.0	0.0	4.8
E	1.8	0.6	0.0	0.0	0.0	0.0	2.4
ESE	1.8	0.0	0.0	0.0	0.0	0.0	1.8
SE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3.6	0.0	0.0	0.0	0.0	0.0	3.6
SSW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
WSW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
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	1.8	0.0	0.0	0.0	0.0	0.0	1.8
NNW	3.0	0.0	0.0	0.0	0.0	0.0	3.0
Calm	33.9						



Wind Speed &amp; Wind Direction

Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980

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

Sampling Date : October 14-21, 2022

Time	October 14-15, 2022		October 15-16, 2022		October 16-17, 2022		October 17-18, 2022		October 18-19, 2022		October 19-20, 2022		October 20-21, 2022	
	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	0.9	NNE	0.9	NNE	0.9	NE	1.3	S	1.8	NE	0.9	NNE	0.9	ENE
12:00-13:00	0.9	NNE	1.3	NNE	0.9	NNE	1.3	S	1.8	ENE	0.9	NNE	0.9	NE
13:00-14:00	1.3	NNE	0.9	NNE	0.9	NNE	0.4	SW	2.2	E	0.9	ENE	0.9	E
14:00-15:00	0.9	NNE	0.9	NNE	0.4	NNE	0.4	WSW	1.8	SE	0.9	ESE	1.3	ESE
15:00-16:00	0.9	N	1.3	NE	0.4	NNW	0.0	-	1.8	S	0.9	S	0.0	-
16:00-17:00	0.9	NNE	1.3	NNE	0.9	NNW	0.0	-	0.9	S	0.4	SSW	0.0	-
17:00-18:00	1.3	NNE	1.3	NNE	0.4	NW	0.0	-	0.4	S	0.0	-	0.0	-
18:00-19:00	0.9	NNE	0.9	NNE	0.4	NNE	0.0	-	0.0	-	0.0	-	0.0	-
19:00-20:00	0.0	-	1.3	NNE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
20:00-21:00	0.4	NE	0.9	NE	0.4	NW	0.0	-	0.0	-	0.0	-	0.0	-
21:00-22:00	0.4	NNE	0.9	NNE	0.4	NNE	0.4	NNE	0.0	-	0.0	-	0.0	-
22:00-23:00	0.4	N	0.9	NNE	0.9	NNE	0.0	-	0.0	-	0.0	-	0.0	-
23:00-00:00	0.0	-	0.9	NNE	0.4	NE	0.4	N	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	1.3	NNE	0.4	NNW	0.0	-	0.4	SE	0.4	NNE	0.0	-
01:00-02:00	0.0	-	1.3	NNE	0.4	NW	0.0	-	0.0	-	0.4	NNE	0.0	-
02:00-03:00	0.0	-	0.4	NE	0.0	-	0.4	NNE	0.0	-	0.4	NE	0.0	-
03:00-04:00	0.0	-	0.4	NE	0.0	-	0.4	NNE	0.0	-	0.4	NNE	0.0	-
04:00-05:00	0.0	-	0.4	N	0.0	-	0.4	NNE	0.4	NNE	0.9	NNE	0.0	-
05:00-06:00	0.0	-	0.4	ENE	0.0	-	0.9	NNE	0.4	NNE	0.4	NNE	0.0	-
06:00-07:00	0.0	-	0.4	N	0.4	NNE	1.8	NE	0.4	NNE	0.4	NNE	0.0	-
07:00-08:00	0.0	-	0.4	NE	0.9	NNE	0.9	ESE	0.9	NNE	0.4	N	0.0	-
08:00-09:00	0.9	NNE	0.4	NNE	0.9	NE	0.9	E	0.4	NNW	0.4	NNW	0.4	NE
09:00-10:00	1.3	NNE	0.9	NE	1.3	NE	0.4	E	0.9	NNE	0.9	NNE	0.9	ENE
10:00-11:00	0.9	NNE	0.9	NE	0.9	ENE	2.2	ENE	0.9	NNE	0.4	NNE	1.3	ENE



Wind Speed &amp; Wind Direction

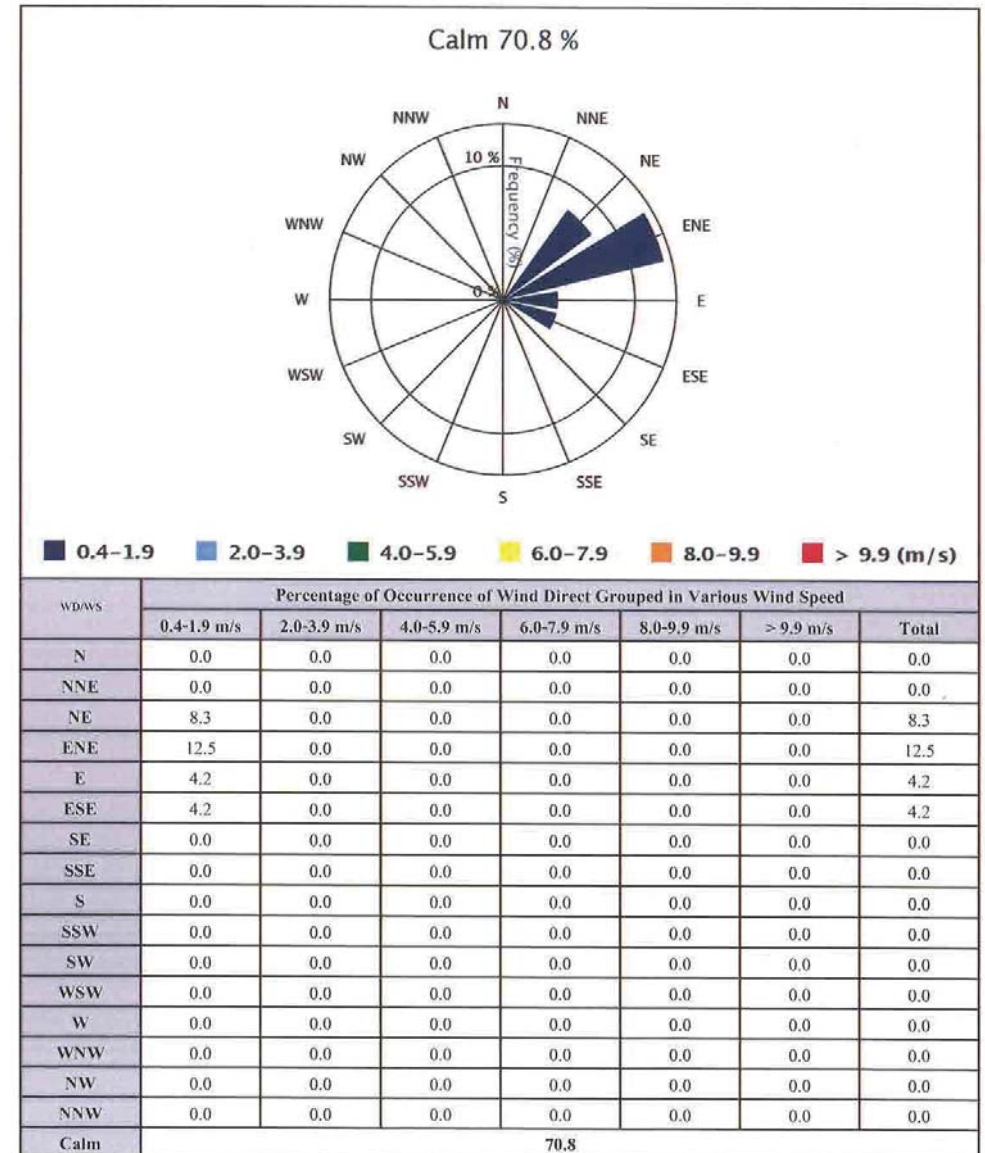
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-1

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

Sampling Date : October 14-15, 2022





## Wind Speed &amp; Wind Direction

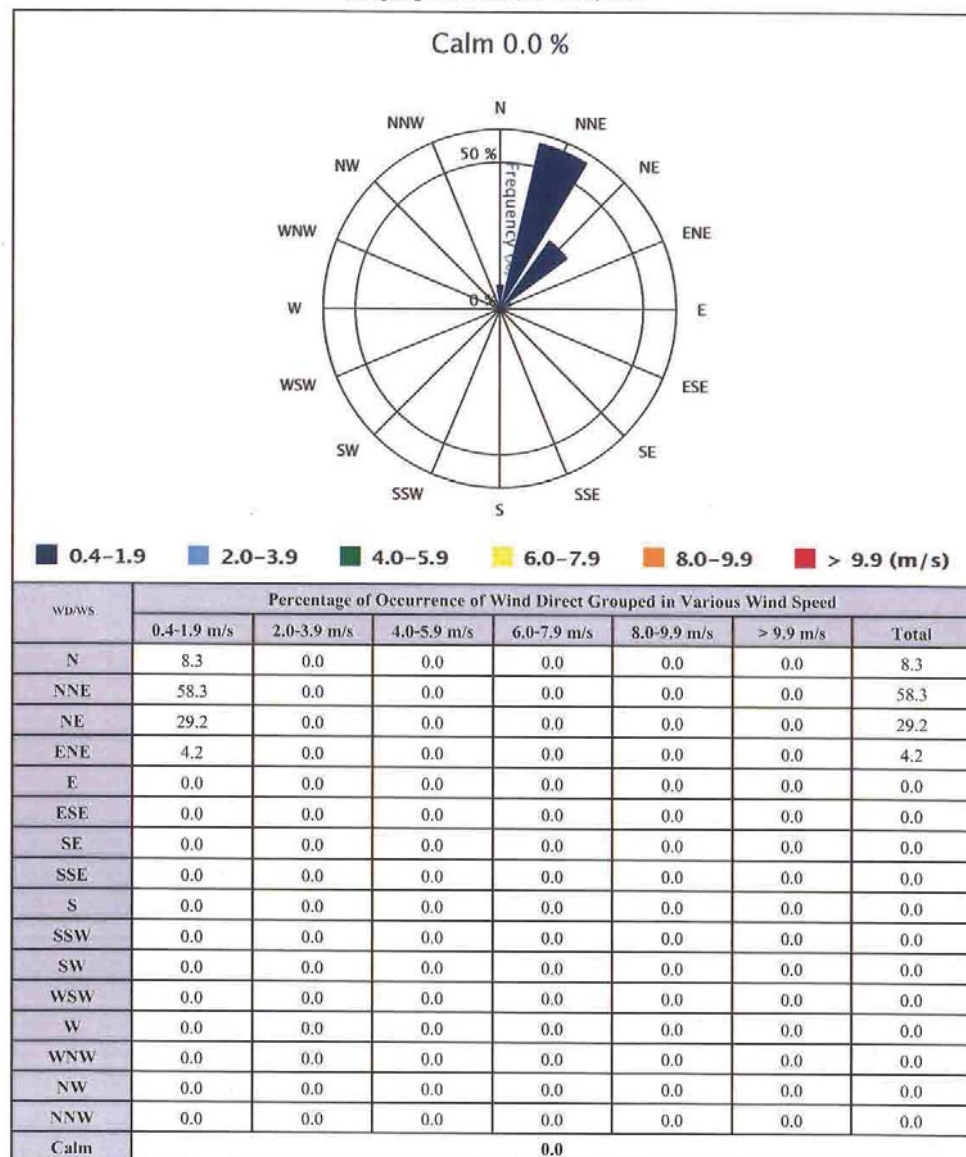
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-2

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

Sampling Date : October 15-16, 2022



## Wind Speed &amp; Wind Direction

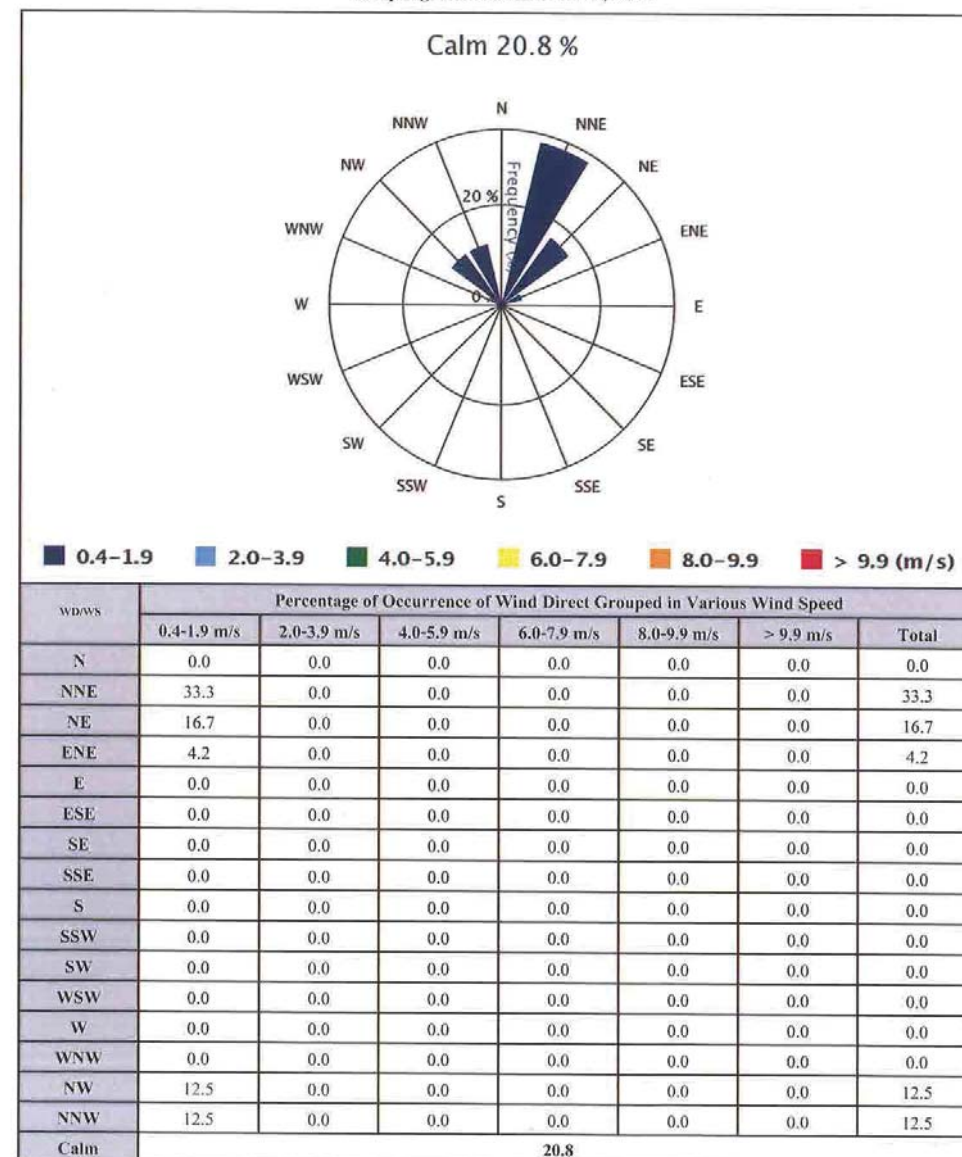
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-3

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

Sampling Date : October 16-17, 2022





Wind Speed & Wind Direction

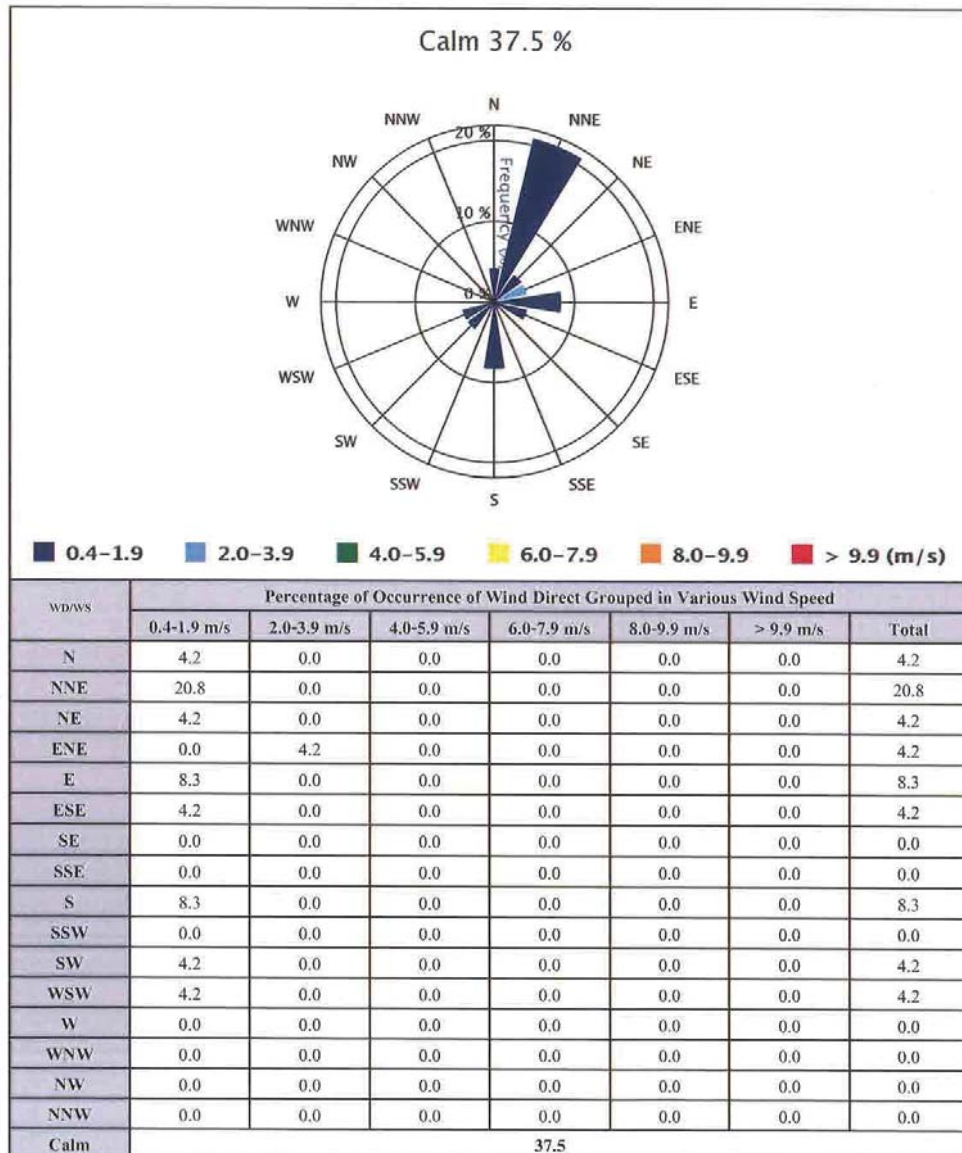
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-4

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

Sampling Date : October 17-18, 2022



Wind Speed & Wind Direction

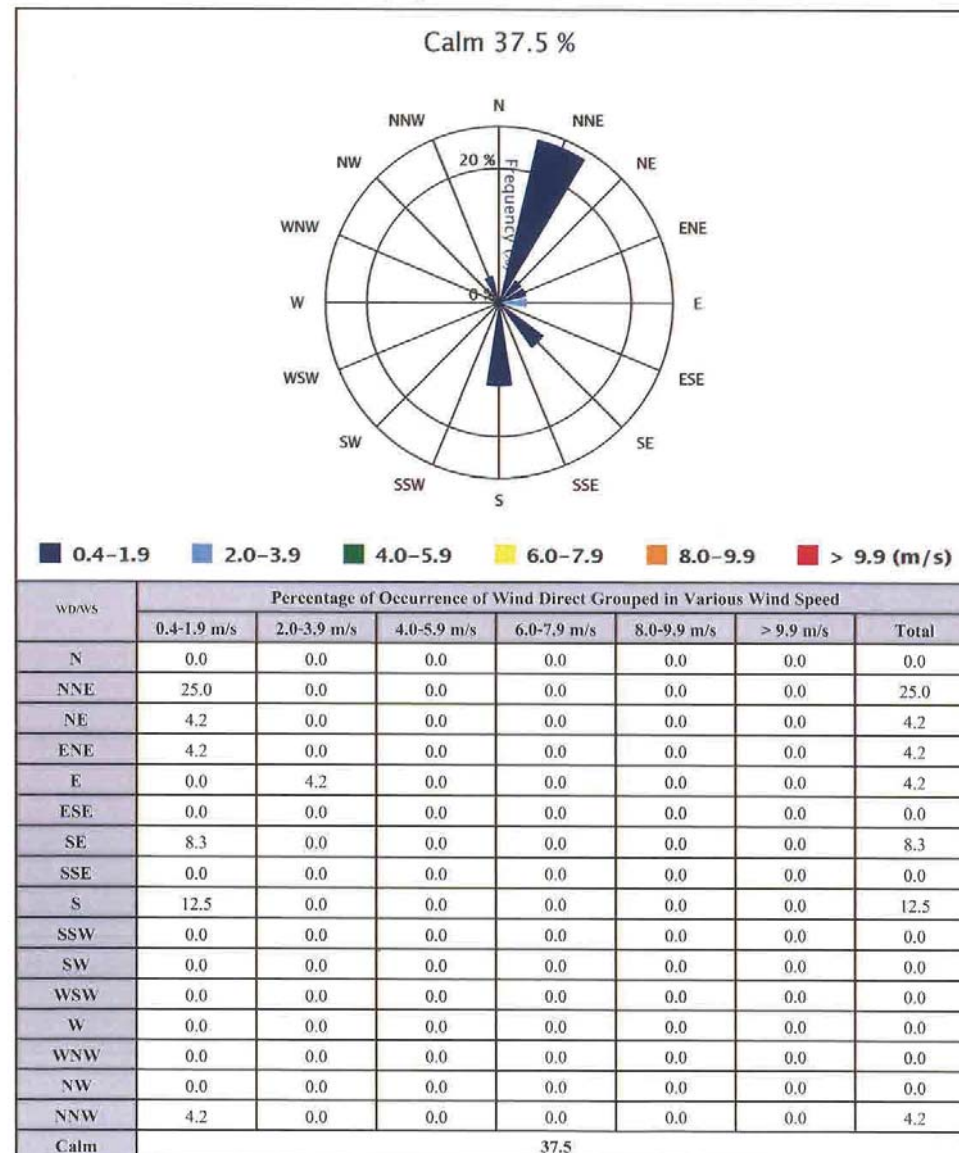
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-5

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

Sampling Date : October 18-19, 2022



## Wind Speed &amp; Wind Direction

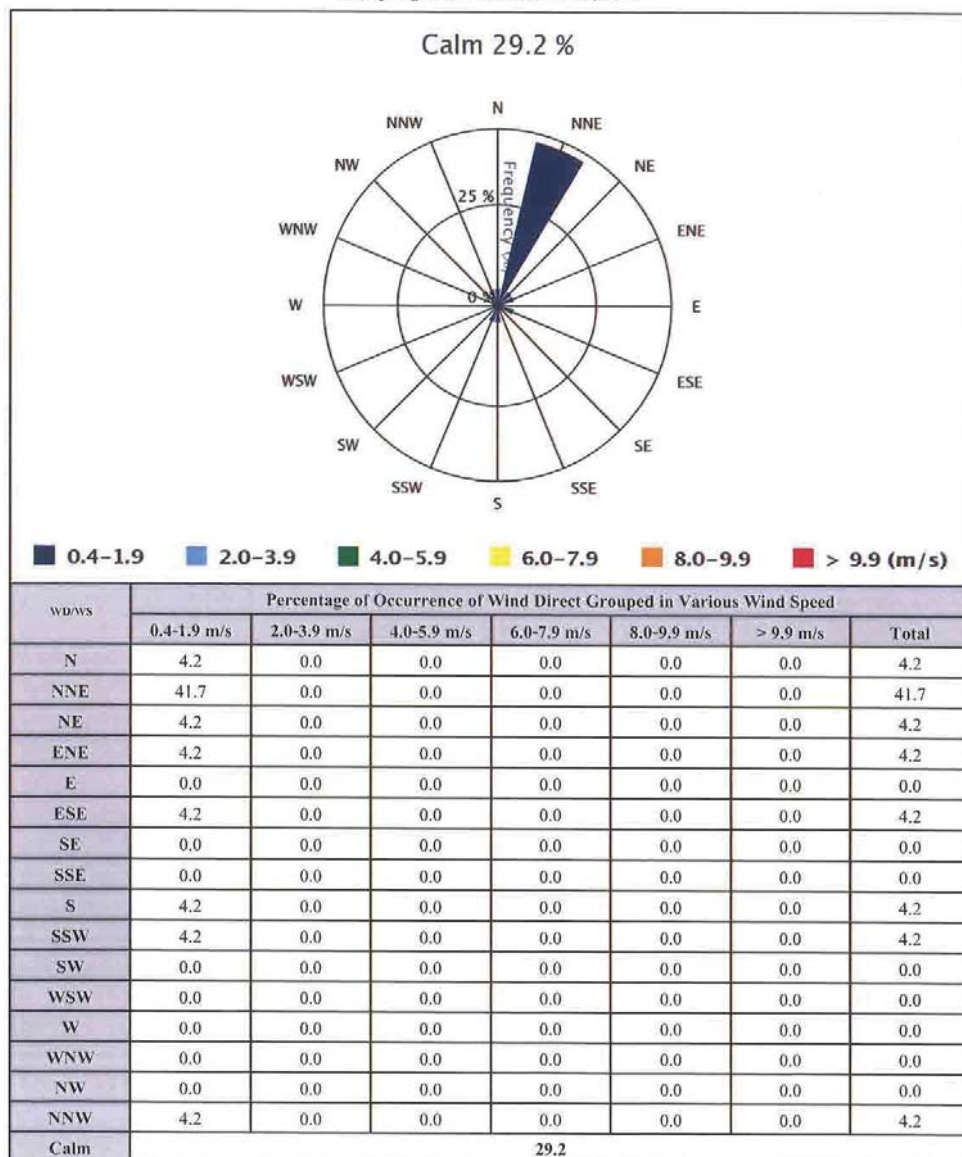
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-6

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

Sampling Date : October 19-20, 2022



## Wind Speed &amp; Wind Direction

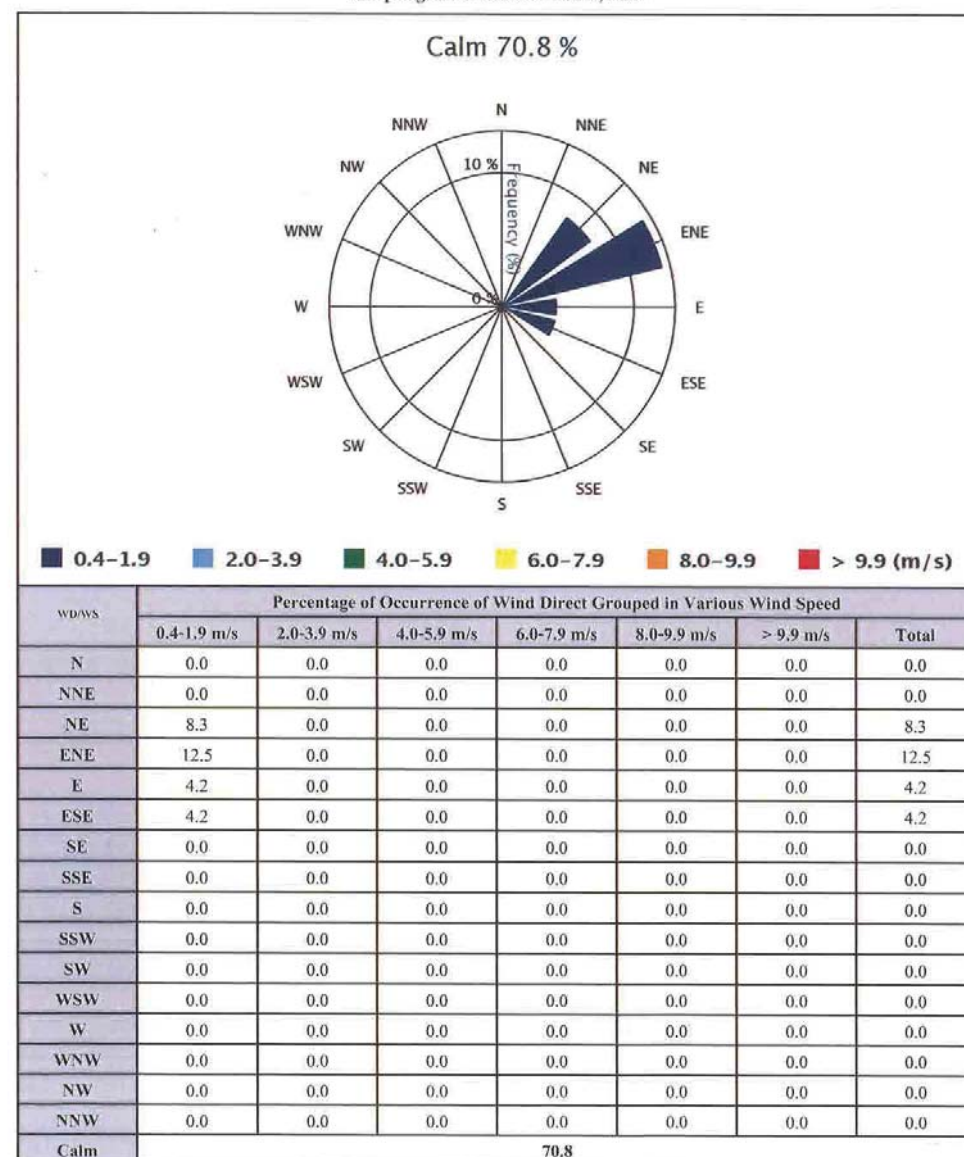
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30980-7

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

Sampling Date : October 20-21, 2022





## Wind Speed &amp; Wind Direction

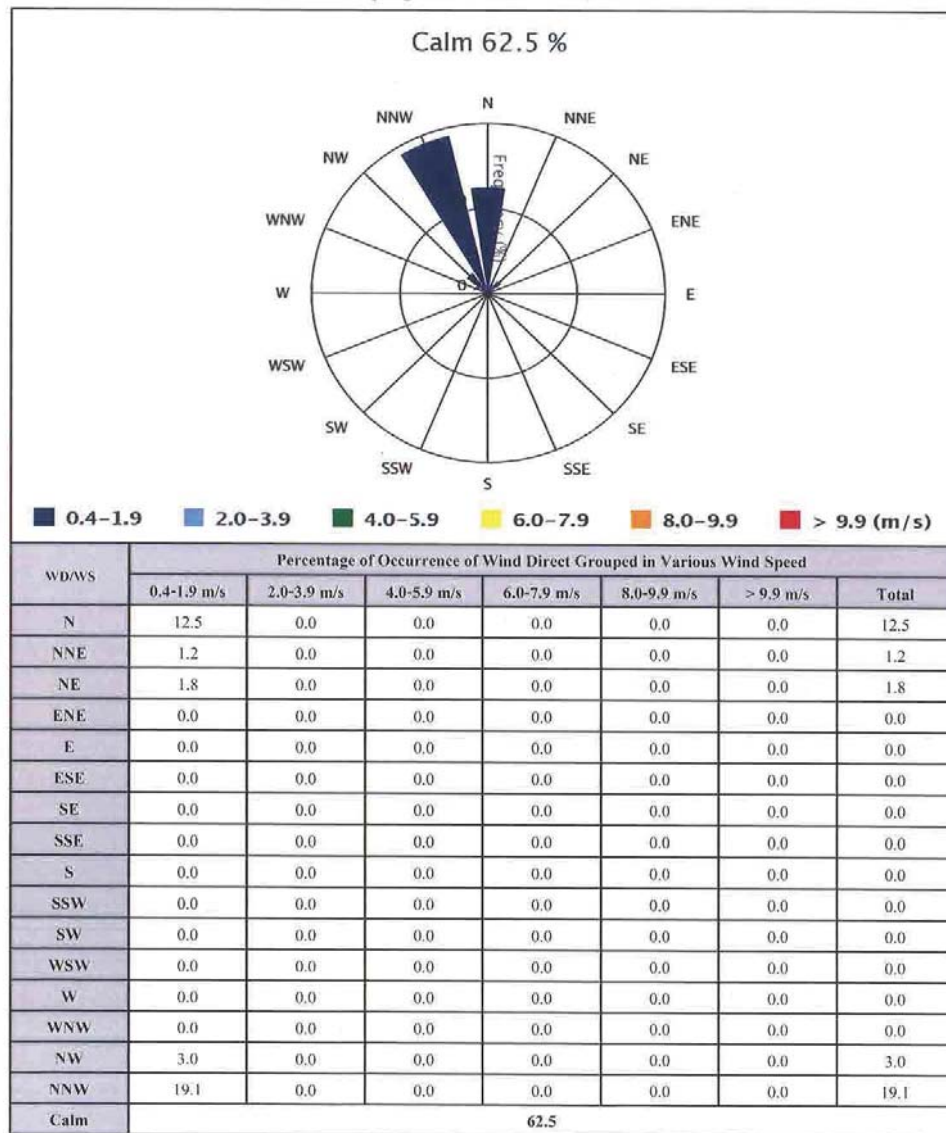
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982

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

Sampling Date : October 14-21, 2022



## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982

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

Sampling Date : October 14-21, 2022

Time	October 14-15, 2022		October 15-16, 2022		October 16-17, 2022		October 17-18, 2022		October 18-19, 2022		October 19-20, 2022		October 20-21, 2022	
	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	NW	0.4	N	0.9	NNW	0.4	N	0.4	NNW	0.4	NE	0.4	N
12:00-13:00	0.4	NNW	0.4	NE	0.9	NNW	0.4	N	0.4	N	0.4	NNW	0.4	NNW
13:00-14:00	0.4	N	0.0	-	0.9	NNW	0.4	N	0.4	NNW	0.4	NW	0.0	-
14:00-15:00	0.9	N	0.0	-	0.9	N	0.4	NNW	0.4	NNW	0.4	NNW	0.0	-
15:00-16:00	0.4	NNW	0.4	NE	0.4	NNW	0.4	N	0.0	-	0.0	-	0.0	-
16:00-17:00	0.4	N	0.4	N	0.9	NNW	0.0	-	0.0	-	0.0	-	0.0	-
17:00-18:00	0.4	N	0.4	NNW	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-
18:00-19:00	0.0	-	0.4	NNW	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-
19:00-20:00	0.0	-	0.4	NNE	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-
20:00-21:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
21:00-22:00	0.0	-	0.4	NNW	0.4	NW	0.0	-	0.0	-	0.0	-	0.0	-
22:00-23:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
23:00-00:00	0.0	-	0.4	N	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	0.4	N	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
01:00-02:00	0.0	-	0.4	N	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	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
04:00-05:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
05:00-06:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
06:00-07:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
07:00-08:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
08:00-09:00	0.0	-	0.4	NNW	0.4	NW	0.0	-	0.0	-	0.0	-	0.0	-
09:00-10:00	0.4	N	0.4	NNW	0.4	NNW	0.4	N	0.4	NNW	0.4	N	0.0	-
10:00-11:00	0.4	N	0.4	N	0.4	NNW	0.4	NNE	0.4	NW	0.0	-	0.0	-



# Wind Speed & Wind Direction

Request No. LA65-R1055

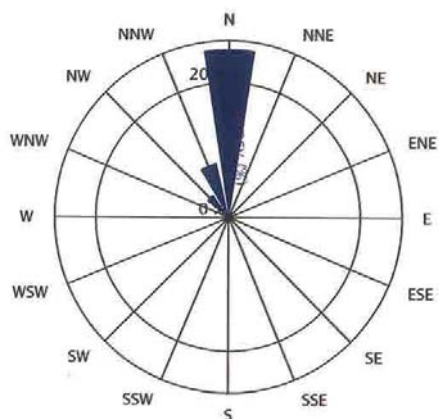
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-1

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

Sampling Date : October 14-15, 2022

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	25.0	0.0	0.0	0.0	0.0	0.0	25.0
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	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	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	4.2	0.0	0.0	0.0	0.0	0.0	4.2
NNW	8.3	0.0	0.0	0.0	0.0	0.0	8.3
Calm	62.5						



# Wind Speed & Wind Direction

Request No. LA65-R1055

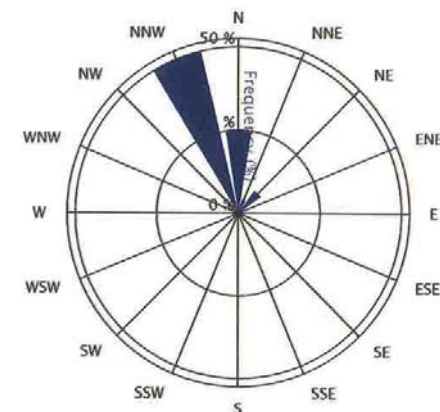
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-2

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

Sampling Date : October 15-16, 2022

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	25.0	0.0	0.0	0.0	0.0	0.0	25.0
NNE	4.2	0.0	0.0	0.0	0.0	0.0	4.2
NE	8.3	0.0	0.0	0.0	0.0	0.0	8.3
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	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	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	50.0	0.0	0.0	0.0	0.0	0.0	50.0
Calm	12.5						



Wind Speed & Wind Direction

Request No. LA65-R1055

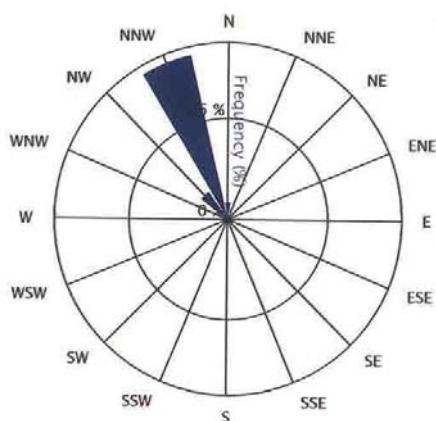
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-3

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

Sampling Date : October 16-17, 2022

Calm 45.8 %



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	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	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	8.3	0.0	0.0	0.0	0.0	0.0	8.3
NNW	41.7	0.0	0.0	0.0	0.0	0.0	41.7
Calm	45.8						45.8

Wind Speed & Wind Direction

Request No. LA65-R1055

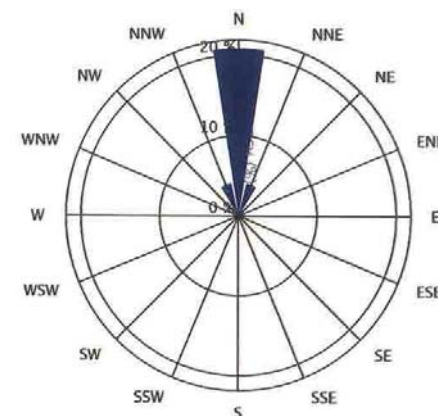
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-4

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

Sampling Date : October 17-18, 2022

Calm 70.8 %



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	20.8	0.0	0.0	0.0	0.0	0.0	20.8
NNE	4.2	0.0	0.0	0.0	0.0	0.0	4.2
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	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	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	70.8						70.8

## Wind Speed &amp; Wind Direction

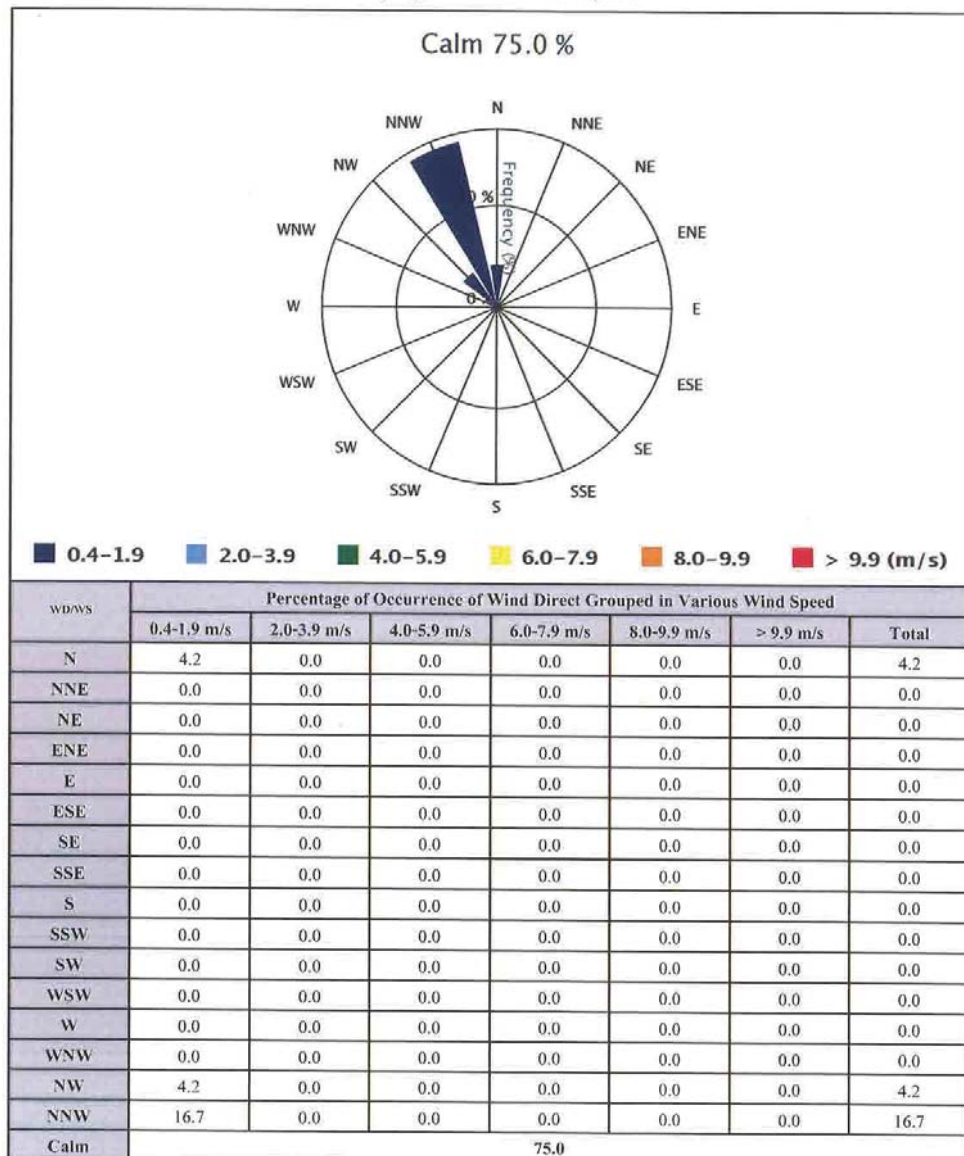
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-5

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

Sampling Date : October 18-19, 2022



## Wind Speed &amp; Wind Direction

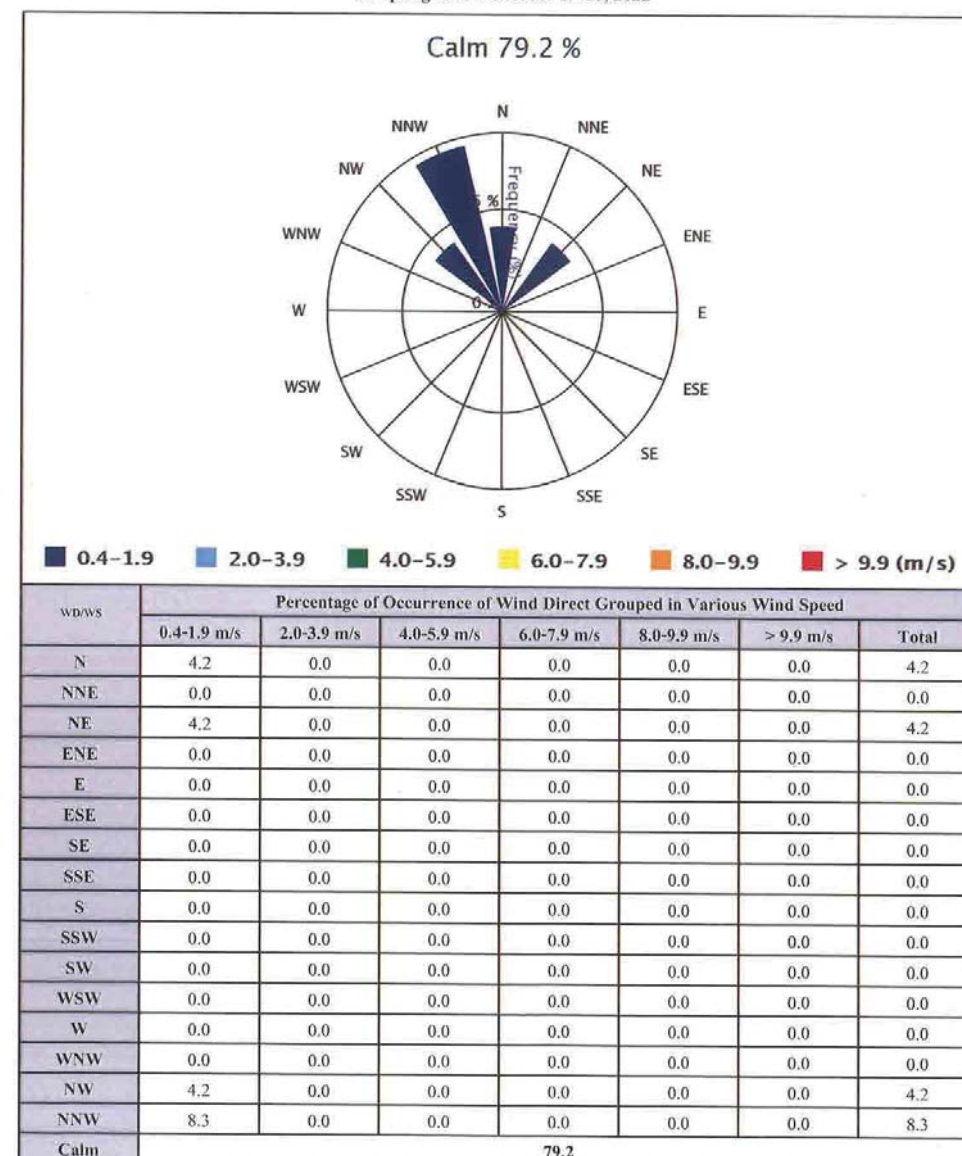
Request No. LA65-R1055

NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-6

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

Sampling Date : October 19-20, 2022







## Wind Speed &amp; Wind Direction

Request No. LA65-R1055

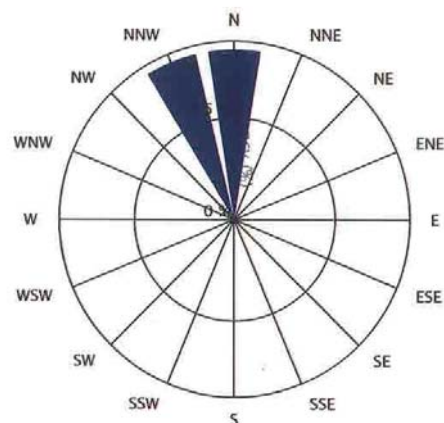
NPC Safety and Environmental Service Co., Ltd.

Sample No. 30982-7

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

Sampling Date : October 20-21, 2022

Calm 91.7 %



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	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	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	91.7						