ภาคผนวก ก

หนังสือรับรองผลการตรวจวิเคราะห์

ภาคผนวก ก1

ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไป

CLIENT : THAI POLYCARBONATE CO., LTD.
CONTACT : Khun Sommai Sriprom
ADDRESS : Padaeng Industrial Estate, 1/1 Padaeng Rd., Map Ta Phut, Rayong 21150
Tel. 038-684-816 Fax. 038-687-776
E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Factory (Fence Line)
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Station	Date	n-Heptane (ppm)
Factory (Fence Line)	March 11-12, 2024	<0.049
	March 12-13, 2024	<0.049
	March 13-14, 2024	<0.049
	March 14-15, 2024	<0.049
	March 15-16, 2024	<0.049
	March 16-17, 2024	<0.049
	March 17-18, 2024	<0.049
Standard		-

Remarks : - There is no relative standard for n-Heptane.
- Sampling and analytical technique for n-Heptane based on NIOSH 1500

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Factory (Fence Line)
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Time	NO_2 Concentration (ppm)						
	March 11-12, 2024	March 12-13, 2024	March 13-14, 2024	March 14-15, 2024	March 15-16, 2024	March 16-17, 2024	March 17-18, 2024
10:00-11:00	0.006	0.007	0.008	0.008	0.007	0.020	0.006
11:00-12:00	0.007	0.008	0.007	0.006	0.006	0.019	0.005
12:00-13:00	0.014	0.007	0.007	0.007	0.006	0.013	0.005
13:00-14:00	0.017	0.007	0.006	0.005	0.005	0.009	0.005
14:00-15:00	0.015	0.006	0.006	0.006	0.007	0.008	0.008
15:00-16:00	0.015	0.006	0.007	0.010	0.008	0.007	0.005
16:00-17:00	0.012	0.005	0.007	0.013	0.011	0.008	0.006
17:00-18:00	0.013	0.008	0.006	0.008	0.007	0.007	0.005
18:00-19:00	0.012	0.008	0.008	0.007	0.007	0.007	0.006
19:00-20:00	0.010	0.007	0.008	0.007	0.006	0.007	0.007
20:00-21:00	0.009	0.008	0.006	0.012	0.007	0.008	0.007
21:00-22:00	0.009	0.006	0.007	0.012	0.008	0.007	0.006
22:00-23:00	0.008	0.006	0.005	0.007	0.007	0.006	0.005
23:00-00:00	0.007	0.005	0.005	0.006	0.005	0.006	0.006
00:00-01:00	0.007	0.005	0.005	0.006	0.005	0.006	0.005
01:00-02:00	0.007	0.005	0.006	0.005	0.005	0.005	0.006
02:00-03:00	0.006	0.005	0.006	0.005	0.007	0.005	0.005
03:00-04:00	0.006	0.005	0.005	0.005	0.007	0.006	0.005
04:00-05:00	0.006	0.005	0.004	0.005	0.005	0.005	0.005
05:00-06:00	0.006	0.005	0.004	0.005	0.005	0.005	0.005
06:00-07:00	0.005	0.006	0.005	0.005	0.007	0.006	0.006
07:00-08:00	0.009	0.008	0.006	0.007	0.014	0.008	0.006
08:00-09:00	0.009	0.008	0.007	0.007	0.016	0.010	0.008
09:00-10:00	0.007	0.007	0.005	0.010	0.021	0.009	0.006
1 hr Minimum	**0.005**	**0.005**	**0.004**	**0.005**	**0.005**	**0.005**	**0.005**
1 hr Maximum	**0.017**	**0.008**	**0.008**	**0.013**	**0.021**	**0.020**	**0.008**
Standard[1] (avg. 1 hr)	**>0.17**						

Analytical Method : - Chemiluminescence Method.
Source : [1] The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Factory (Fence Line)
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Time	CO Concentration (ppm)						
	March 11-12, 2024	March 12-13, 2024	March 13-14, 2024	March 14-15, 2024	March 15-16, 2024	March 16-17, 2024	March 17-18, 2024
10:00-11:00	0.753	0.369	0.448	0.474	0.530	0.564	0.509
11:00-12:00	0.535	0.405	0.417	0.483	0.557	0.558	0.553
12:00-13:00	0.685	0.384	0.410	0.465	0.535	0.586	0.557
13:00-14:00	0.666	0.395	0.455	0.480	0.517	0.591	0.557
14:00-15:00	0.571	0.401	0.446	0.512	0.533	0.597	0.532
15:00-16:00	0.546	0.422	0.416	0.466	0.552	0.594	0.565
16:00-17:00	0.530	0.411	0.444	0.444	0.527	0.630	0.598
17:00-18:00	0.506	0.404	0.413	0.462	0.527	0.599	0.626
18:00-19:00	0.476	0.399	0.442	0.454	0.523	0.594	0.656
19:00-20:00	0.454	0.405	0.398	0.485	0.534	0.563	0.640
20:00-21:00	0.462	0.400	0.484	0.660	0.632	0.523	0.659
21:00-22:00	0.426	0.373	0.417	0.707	0.726	0.473	0.677
22:00-23:00	0.430	0.379	0.389	0.445	0.533	0.474	0.644
23:00-00:00	0.392	0.361	0.425	0.473	0.531	0.495	0.649
00:00-01:00	0.411	0.384	0.420	0.468	0.502	0.511	0.639
01:00-02:00	0.407	0.407	0.409	0.477	0.548	0.537	0.643
02:00-03:00	0.383	0.455	0.422	0.478	0.515	0.568	0.632
03:00-04:00	0.376	0.388	0.430	0.490	0.505	0.578	0.589
04:00-05:00	0.421	0.403	0.427	0.481	0.478	0.565	0.630
05:00-06:00	0.410	0.391	0.429	0.483	0.592	0.588	0.611
06:00-07:00	0.419	0.426	0.479	0.515	0.590	0.920	0.650
07:00-08:00	0.379	0.420	0.442	0.503	0.760	0.573	0.576
08:00-09:00	0.584	0.406	0.449	0.501	0.571	0.525	0.642
09:00-10:00	0.389	0.433	0.434	0.483	0.587	0.522	0.649
1 hr Minimum	**0.376**	**0.361**	**0.389**	**0.444**	**0.478**	**0.473**	**0.509**
1 hr Maximum	**0.753**	**0.455**	**0.494**	**0.707**	**0.760**	**0.920**	**0.677**
Standard[1] (avg. 1 hr)	**>30**						

Analytical Method : - Non-Dispersive Infrared (NDIR) Method.
Source : [1] The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol 112, Part 42D, dated May 25, B.E. 2538 (1995).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Factory (Fence Line)
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

TIME	March 11-12, 2024		March 12-13, 2024		March 13-14, 2024		March 14-15, 2024		March 15-16, 2024		March 16-17, 2024		March 17-18, 2024	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
10:00-11:00	SW	2.2	SSW	1.8	SW	1.8	S	2.2	SSE	2.2	W	2.7	WSW	2.2
11:00-12:00	SW	2.2	WSW	1.8	SSE	2.2	SW	2.7	SSE	2.7	WSW	2.7	SW	2.2
12:00-13:00	SW	2.2	SW	1.8	WSW	2.7	SW	2.7	SSE	2.7	WSW	3.2	SW	2.7
13:00-14:00	SW	2.7	WSW	2.2	SW	2.7	WSW	2.7	SSE	3.1	WSW	2.7	SW	2.7
14:00-15:00	SW	2.7	SW	2.2	SW	2.7	SW	3.1	SSE	2.7	WSW	3.1	SW	2.7
15:00-16:00	SSE	3.1	SW	2.2	SSE	2.7	WSW	2.7	SSE	2.7	SW	2.7	SW	2.7
16:00-17:00	SW	2.7	SW	2.2	WSW	2.7	SSE	2.7	SSE	2.7	WSW	1.8	SW	2.7
17:00-18:00	SSE	2.2	SW	2.2	SSE	2.2	SSE	2.2	WSW	2.2	S	1.8	SW	2.7
18:00-19:00	SE	2.2	SE	2.2	SSE	2.2	SSE	2.2	SSE	2.2	SW	1.8	SW	2.2
19:00-20:00	SE	2.2	SSE	2.2	SSE	2.2	SSE	2.2	SSE	2.2	SSE	1.8	SW	1.8
20:00-21:00	SSE	1.8	SSE	2.2	SSE	2.7	SE	2.2	SSE	2.2	SSE	1.8	WSW	1.3
21:00-22:00	SSE	1.8	SSE	2.7	SSE	2.2	SE	2.2	SSE	2.2	SSE	1.8	WSW	1.3
22:00-23:00	SSE	1.8	SSE	2.2	SSE	2.2	SSE	2.2	SSE	2.2	SSE	2.7	SSE	1.3
23:00-00:00	WSW	1.8	SW	1.8	SSE	2.2	SSE	1.8	SSE	2.7	SSE	2.2	SW	1.3
00:00-01:00	SE	1.8	SW	1.8	SW	1.8	SSE	1.8	SSE	2.2	SSE	1.3	SW	1.3
01:00-02:00	WSW	1.8	SW	1.8	SSE	1.8	WSW	1.8	SSE	1.8	SW	1.8	SSE	1.3
02:00-03:00	SSW	1.8	WSW	1.8	WSW	1.8	SW	2.2	SW	2.2	WSW	1.3	SW	1.8
03:00-04:00	WSW	1.8	WSW	2.2	SW	1.8	SW	1.8	WSW	1.8	WSW	1.3	SSW	1.8
04:00-05:00	SSW	1.8	SW	2.2	SW	2.2	WSW	1.8	WSW	1.8	SSE	1.8	SSW	1.3
05:00-06:00	WSW	1.8	SW	1.8	SW	2.2	WSW	1.8	SSE	2.2	SSE	1.8	SW	1.3
06:00-07:00	SW	2.2	SW	1.3	SW	2.2	SSE	1.8	SE	3.1	SE	1.8	SW	1.8
07:00-08:00	W	1.3	SW	1.8	WSW	2.2	SW	1.8	E	3.6	SE	1.8	SSW	2.2
08:00-09:00	SSW	1.8	SW	1.8	SSW	1.8	SSE	1.8	E	2.7	SE	1.8	SW	2.2
09:00-10:00	SW	1.8	SSE	1.8	SW	1.8	SSE	2.2	SSE	1.8	SSE	1.8	SW	2.2

Measurement Method : - Wind Speed and Wind Direction recording meter
Remarks : - WS = Wind Speed
- WD = Wind Direction

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Factory (Fence Line)
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	0.60	0.60	-
ESE	-	-	-	-	-
SE	-	2.38	2.98	0.60	-
SSE	-	11.90	20.83	1.19	-
S	-	0.60	0.60	-	-
SSW	-	4.76	0.60	-	-
SW	-	13.69	19.05	0.60	-
WSW	-	10.12	7.14	0.60	-
W	-	0.60	0.60	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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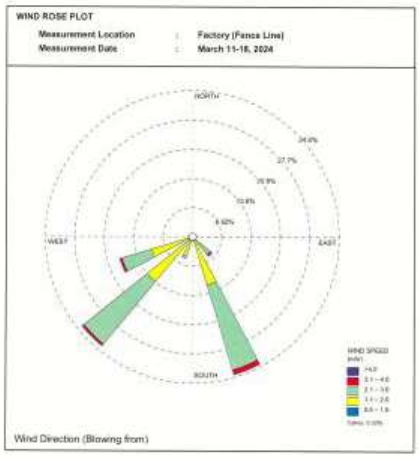
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Wat Nong Faeb School
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Station	Date	n-Heptane (ppm)
Wat Nong Faeb School	March 11-12, 2024	<0.050
	March 12-13, 2024	<0.050
	March 13-14, 2024	<0.050
	March 14-15, 2024	<0.050
	March 15-16, 2024	<0.050
	March 16-17, 2024	<0.050
	March 17-18, 2024	<0.050
Standard [1]		-

Remarks : - There is no relative standard for n-Heptane.
- Sampling and analytical technique for n-Heptane based on NIOSH 1500

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SGS (THAILAND) LIMITED

Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Wat Nong Faeb School
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Time	NO_2 Concentration (ppm)						
	March 11-12, 2024	March 12-13, 2024	March 13-14, 2024	March 14-15, 2024	March 15-16, 2024	March 16-17, 2024	March 17-18, 2024
11:00-12:00	0.004	0.009	0.005	0.004	0.006	0.006	0.004
12:00-13:00	0.008	0.004	0.003	0.004	0.006	0.005	0.003
13:00-14:00	0.009	0.004	0.003	0.003	0.004	0.005	0.003
14:00-15:00	0.010	0.005	0.002	0.003	0.005	0.004	0.003
15:00-16:00	0.008	0.004	0.002	0.004	0.004	0.004	0.005
16:00-17:00	0.009	0.004	0.002	0.005	0.005	0.005	0.008
17:00-18:00	0.013	0.006	0.003	0.007	0.009	0.015	0.007
18:00-19:00	0.013	0.006	0.003	0.008	0.008	0.011	0.007
19:00-20:00	0.011	0.005	0.004	0.006	0.008	0.010	0.006
20:00-21:00	0.011	0.005	0.003	0.008	0.008	0.008	0.007
21:00-22:00	0.009	0.005	0.003	0.008	0.007	0.008	0.007
22:00-23:00	0.008	0.004	0.001	0.005	0.005	0.006	0.005
23:00-00:00	0.008	0.004	0.001	0.006	0.005	0.006	0.005
00:00-01:00	0.007	0.004	0.002	0.005	0.006	0.007	0.005
01:00-02:00	0.007	0.005	0.002	0.005	0.005	0.005	0.005
02:00-03:00	0.006	0.004	0.001	0.004	0.005	0.005	0.004
03:00-04:00	0.006	0.004	0.001	0.005	0.005	0.005	0.005
04:00-05:00	0.006	0.004	0.002	0.004	0.004	0.004	0.004
05:00-06:00	0.008	0.003	0.001	0.004	0.005	0.005	0.005
06:00-07:00	0.006	0.004	0.001	0.005	0.008	0.005	0.005
07:00-08:00	0.007	0.006	0.003	0.006	0.014	0.006	0.007
08:00-09:00	0.010	0.008	0.005	0.008	0.016	0.007	0.008
09:00-10:00	0.009	0.006	0.003	0.005	0.010	0.007	0.007
10:00-11:00	0.007	0.004	0.002	0.004	0.008	0.006	0.006
1 hr Minimum	0.004	0.003	0.001	0.003	0.004	0.004	0.003
1 hr Maximum	0.013	0.009	0.005	0.008	0.016	0.015	0.008
Standard[1] (avg. 1 hr)	>0.17						

Analytical Method : - Chemiluminescence Method.
Source : [1] The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Wat Nong Faeb School
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Time	CO Concentration (ppm)						
	March 11-12, 2024	March 12-13, 2024	March 13-14, 2024	March 14-15, 2024	March 15-16, 2024	March 16-17, 2024	March 17-18, 2024
11:00-12:00	0.618	0.549	0.556	0.848	0.825	0.737	0.628
12:00-13:00	0.880	0.536	0.526	0.873	0.709	0.737	0.580
13:00-14:00	0.808	0.549	0.556	0.789	0.688	0.723	0.580
14:00-15:00	0.757	0.542	0.560	0.745	0.682	0.716	0.577
15:00-16:00	0.711	0.530	0.557	0.765	0.681	0.721	0.598
16:00-17:00	0.714	0.586	0.563	0.764	0.694	0.740	0.619
17:00-18:00	0.663	0.600	0.597	0.736	0.667	0.829	0.852
18:00-19:00	0.674	0.567	0.504	0.759	0.656	0.742	0.782
19:00-20:00	0.650	0.560	0.443	0.796	0.667	0.729	0.819
20:00-21:00	0.647	0.565	0.437	0.686	0.661	0.712	0.663
21:00-22:00	0.598	0.545	0.611	0.684	0.661	0.699	0.668
22:00-23:00	0.565	0.551	0.448	0.653	0.643	0.647	0.641
23:00-00:00	0.559	0.524	0.424	0.654	0.640	0.597	0.623
00:00-01:00	0.543	0.519	0.434	0.660	0.656	0.586	0.600
01:00-02:00	0.540	0.512	0.417	0.665	0.651	0.599	0.619
02:00-03:00	0.530	0.498	0.412	0.670	0.647	0.578	0.621
03:00-04:00	0.534	0.491	0.383	0.694	0.646	0.566	0.610
04:00-05:00	0.535	0.488	0.392	0.688	0.645	0.557	0.601
05:00-06:00	0.543	0.490	0.409	0.685	0.649	0.571	0.595
06:00-07:00	0.550	0.496	0.396	0.685	0.668	0.587	0.599
07:00-08:00	0.606	0.552	0.433	0.722	0.760	0.574	0.637
08:00-09:00	0.641	0.576	0.539	0.741	0.763	0.619	0.679
09:00-10:00	0.579	0.532	0.665	0.711	0.745	0.651	0.668
10:00-11:00	0.548	0.528	0.612	0.739	0.765	0.704	0.619
1 hr Minimum	**0.530**	**0.488**	**0.383**	**0.653**	**0.640**	**0.557**	**0.577**
1 hr Maximum	**0.880**	**0.600**	**0.665**	**0.873**	**0.825**	**0.829**	**0.852**
Standard* (avg. 1 hr)				**>30**			

Analytical Method : - Non-Dispersive Infrared (NDIR) Method.
Source : * The notification of the National Environment Board No.10, B.E. 2539 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol.112, Part 42D, dated May 25, B.E. 2538 (1995).

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E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Wat Nong Faeb School
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

TIME	March 11-12, 2024		March 12-13, 2024		March 13-14, 2024		March 14-15, 2024		March 15-16, 2024		March 16-17, 2024		March 17-18, 2024	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
11:00-12:00	SW	2.2	WSW	2.2	WSW	2.7	SW	2.7	SW	2.7	WNW	1.8	WSW	2.2
12:00-13:00	SW	2.7	WSW	2.2	SW	2.7	SW	2.7	SW	2.7	W	1.8	SW	2.2
13:00-14:00	SW	2.7	WSW	2.2	SW	2.7	SW	2.2	SW	2.7	WSW	1.8	SW	2.7
14:00-15:00	SW	2.7	WSW	2.2	WSW	2.2	SW	2.2	SW	2.2	W	1.8	SW	2.2
15:00-16:00	S	2.7	SW	1.8	WSW	2.2	S	1.8	SW	1.8	WSW	1.8	WSW	2.2
16:00-17:00	SW	2.7	SW	2.2	SW	1.8	S	1.3	SSW	1.8	SW	1.3	WSW	1.3
17:00-18:00	SW	2.2	SW	2.7	S	1.8	S	1.8	S	1.8	WSW	1.3	-	Calm
18:00-19:00	SW	1.8	SSW	1.8	S	1.8	S	1.8	S	1.8	SW	1.3	-	Calm
19:00-20:00	SW	1.3	SW	1.8	SW	1.8	S	1.3	S	1.8	SSW	1.8	WSW	1.3
20:00-21:00	WSW	1.3	WSW	2.2	SW	2.2	SW	1.8	S	2.2	SW	1.3	WSW	0.9
21:00-22:00	WSW	1.3	WSW	2.2	SW	2.2	SW	2.2	WSW	2.2	SW	1.8	WSW	0.9
22:00-23:00	WSW	1.3	WSW	1.8	WSW	2.2	SW	2.2	SW	2.2	SW	1.8	WSW	1.3
23:00-00:00	WSW	1.3	WSW	1.8	SW	2.2	SW	2.2	SW	2.7	WSW	1.3	WSW	2.2
00:00-01:00	SW	2.2	WSW	2.2	WSW	2.2	SW	2.2	SW	2.7	SW	1.8	WSW	1.3
01:00-02:00	SW	2.2	WSW	2.2	SW	2.2	WSW	1.8	WSW	2.7	WSW	1.3	WSW	1.3
02:00-03:00	WSW	2.2	WSW	1.8	WSW	2.2	SW	2.2	SW	2.2	SW	1.3	WSW	1.3
03:00-04:00	W	1.3	WSW	1.3	WSW	2.2	WSW	2.2	S	2.7	SW	0.9	WSW	1.3
04:00-05:00	WSW	1.8	SW	1.8	WSW	2.2	WSW	1.8	SE	4.5	S	1.3	WSW	1.3
05:00-06:00	WSW	1.8	SW	1.8	SW	2.2	SW	1.8	ESE	2.7	S	1.3	SW	1.3
06:00-07:00	WSW	2.2	SW	1.8	WSW	1.8	SW	1.8	SW	1.8	S	1.3	WSW	1.8
07:00-08:00	WSW	1.3	SW	1.8	SW	2.2	SW	2.2	WNW	1.8	S	1.8	SW	1.8
08:00-09:00	WSW	1.8	SW	1.8	SW	2.7	SW	2.2	WNW	0.9	S	1.8	SW	0.9
09:00-10:00	WSW	2.2	SW	2.2	WSW	2.2	SW	2.2	WNW	1.3	WSW	2.2	SW	1.3
10:00-11:00	WSW	2.2	WSW	2.7	WSW	2.2	SW	2.7	W	1.8	WSW	2.2	SW	1.8

Measurement Method : - Wind Speed and Wind Direction recording meter
Remarks : - WS = Wind Speed
- WD = Wind Direction

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Wat Nong Faeb School
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	0.60	-	-
SE	-	-	-	-	0.60
SSE	-	-	-	-	-
S	-	8.93	1.79	-	-
SSW	-	1.79	-	-	-
SW	1.19	16.07	26.19	-	-
WSW	1.19	17.26	18.45	-	-
W	-	2.38	-	-	-
WNW	0.60	1.79	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM			**1.19**		

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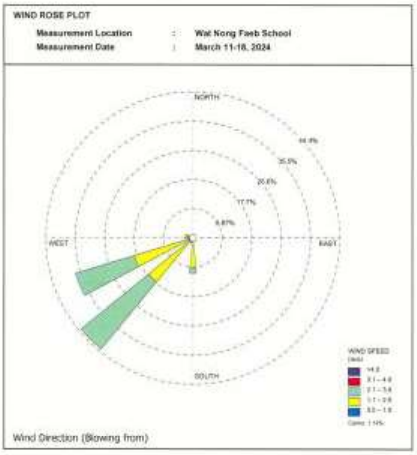
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Chak Klang
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Station	Date	n-Heptane (ppm)
Ban Chak Klang	March 11-12, 2024	<0.049
	March 12-13, 2024	<0.049
	March 13-14, 2024	<0.049
	March 14-15, 2024	<0.049
	March 15-16, 2024	<0.049
	March 16-17, 2024	<0.049
	March 17-18, 2024	<0.049
Standard [1]		-

Remarks : - There is no relative standard for n-Heptane.
- Sampling and analytical technique for n-Heptane based on NIOSH 1500

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Chak Klang
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Time	NO_2 Concentration (ppm)						
	March 11-12, 2024	March 12-13, 2024	March 13-14, 2024	March 14-15, 2024	March 15-16, 2024	March 16-17, 2024	March 17-18, 2024
12:00-13:00	0.002	0.006	0.003	0.001	0.001	0.001	0.001
13:00-14:00	0.004	0.007	0.001	0.001	0.002	0.001	0.001
14:00-15:00	0.011	0.005	0.001	0.001	0.001	0.003	0.001
15:00-16:00	0.015	0.008	0.001	0.002	0.001	0.001	0.002
16:00-17:00	0.014	0.012	0.005	0.003	0.001	0.001	0.005
17:00-18:00	0.023	0.025	0.011	0.007	0.006	0.002	0.006
18:00-19:00	0.004	0.024	0.012	0.009	0.009	0.003	0.006
19:00-20:00	0.009	0.022	0.012	0.012	0.010	0.004	0.006
20:00-21:00	0.021	0.017	0.011	0.016	0.011	0.004	0.012
21:00-22:00	0.010	0.012	0.010	0.023	0.010	0.004	0.009
22:00-23:00	0.001	0.009	0.009	0.008	0.007	0.003	0.006
23:00-00:00	0.002	0.008	0.008	0.008	0.006	0.003	0.004
00:00-01:00	0.003	0.008	0.007	0.006	0.005	0.003	0.005
01:00-02:00	0.003	0.008	0.006	0.006	0.004	0.003	0.004
02:00-03:00	0.003	0.008	0.005	0.004	0.003	0.003	0.003
03:00-04:00	0.003	0.007	0.005	0.004	0.003	0.003	0.003
04:00-05:00	0.005	0.007	0.004	0.003	0.002	0.003	0.004
05:00-06:00	0.005	0.006	0.004	0.003	0.002	0.002	0.004
06:00-07:00	0.005	0.007	0.004	0.003	0.002	0.003	0.002
07:00-08:00	0.004	0.008	0.004	0.003	0.002	0.002	0.003
08:00-09:00	0.005	0.009	0.003	0.002	0.003	0.004	0.003
09:00-10:00	0.005	0.007	0.004	0.001	0.010	0.009	0.002
10:00-11:00	0.005	0.007	0.004	0.002	0.002	0.005	0.003
11:00-12:00	0.006	0.006	0.002	0.001	0.004	0.002	0.005
1 hr Minimum	**0.001**	**0.005**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr Maximum	**0.023**	**0.025**	**0.012**	**0.023**	**0.011**	**0.009**	**0.012**
Standard [2] (avg. 1 hr)	>0.17						

Analytical Method : - Chemiluminescence Method.
Source : [1] The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Chak Klang
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Time	CO Concentration (ppm)						
	March 11-12, 2024	March 12-13, 2024	March 13-14, 2024	March 14-15, 2024	March 15-16, 2024	March 16-17, 2024	March 17-18, 2024
12:00-13:00	0.753	1.024	0.503	0.495	0.513	0.627	0.565
13:00-14:00	0.965	0.661	0.507	0.487	0.490	0.630	0.550
14:00-15:00	0.823	0.416	0.516	0.484	0.526	0.621	0.553
15:00-16:00	0.762	0.421	0.520	0.490	0.539	0.637	0.560
16:00-17:00	0.746	0.441	0.521	0.510	0.525	0.638	0.521
17:00-18:00	0.858	0.455	0.513	0.540	0.538	0.634	0.598
18:00-19:00	0.657	0.479	0.491	0.537	0.537	0.595	0.514
19:00-20:00	0.728	0.481	0.447	0.489	0.518	0.555	0.519
20:00-21:00	0.837	0.501	0.437	0.470	0.499	0.548	0.569
21:00-22:00	0.947	0.509	0.450	0.456	0.526	0.609	0.558
22:00-23:00	0.649	0.526	0.442	0.450	0.490	0.553	0.554
23:00-00:00	0.722	0.508	0.449	0.488	0.488	0.482	0.544
00:00-01:00	0.893	0.510	0.450	0.480	0.516	0.500	0.523
01:00-02:00	0.932	0.512	0.450	0.500	0.496	0.496	0.533
02:00-03:00	0.941	0.510	0.445	0.496	0.515	0.484	0.541
03:00-04:00	1.001	0.486	0.450	0.499	0.506	0.484	0.561
04:00-05:00	1.221	0.487	0.454	0.500	0.514	0.491	0.542
05:00-06:00	1.266	0.475	0.462	0.502	0.507	0.488	0.529
06:00-07:00	1.281	0.465	0.454	0.498	0.518	0.481	0.527
07:00-08:00	1.256	0.475	0.449	0.481	0.611	0.481	0.517
08:00-09:00	1.246	0.481	0.457	0.521	0.606	0.537	0.535
09:00-10:00	1.313	0.485	0.457	0.547	0.616	0.549	0.555
10:00-11:00	1.279	0.469	0.461	0.569	0.570	0.503	0.543
11:00-12:00	1.353	0.470	0.462	0.579	0.593	0.522	0.523
1 hr Minimum	**0.649**	**0.416**	**0.437**	**0.450**	**0.488**	**0.481**	**0.508**
1 hr Maximum	**1.353**	**1.024**	**0.521**	**0.579**	**0.616**	**0.638**	**0.569**
Standard [3] (avg. 1 hr)	>30						

Analytical Method : - Non-Dispersive Infrared (NDIR) Method.
Source : [1] The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol.112, Part 42D, dated May 25, B.E. 2538 (1995).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Chak Klang
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

TIME	March 11-12, 2024		March 12-13, 2024		March 13-14, 2024		March 14-15, 2024		March 15-16, 2024		March 16-17, 2024		March 17-18, 2024	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
12:00-13:00	SW	2.2	SW	1.8	SSW	2.2	SW	2.2	SW	2.7	SW	0.9	SW	2.2
13:00-14:00	SW	2.7	SW	2.2	SW	3.1	SW	2.7	SW	2.7	WSW	0.9	SW	2.2
14:00-15:00	SW	3.1	SW	1.8	SW	3.1	SW	2.7	SW	2.7	SW	1.8	SW	2.2
15:00-16:00	SW	3.6	SW	2.2	SW	2.7	SW	2.7	SW	2.7	SW	1.8	SW	2.2
16:00-17:00	SW	3.1	SW	2.2	SW	2.7	SW	3.1	SW	3.1	SW	2.2	SW	2.7
17:00-18:00	SW	2.7	SW	2.2	SW	2.7	SW	2.7	SW	2.7	SW	2.2	SSW	2.2
18:00-19:00	SW	2.2	SSW	2.2	SW	2.7	SW	2.2	SW	2.7	SW	1.8	SW	2.2
19:00-20:00	SW	1.8	SW	2.2	SW	2.7	SSW	1.8	SW	2.2	SW	0.9	SW	1.3
20:00-21:00	SSW	1.3	SW	1.8	SW	2.7	S	2.2	S	2.2	SW	1.3	-	Calm
21:00-22:00	SW	1.3	SW	2.7	SSW	2.7	S	2.2	SSW	2.7	SW	1.3	SW	0.9
22:00-23:00	SW	1.3	SW	2.2	SW	2.7	SSW	2.2	S	3.1	SW	1.8	SSW	0.9
23:00-00:00	SSW	1.8	SW	1.8	SW	2.7	SW	1.8	SSW	2.7	SSW	2.2	SW	0.9
00:00-01:00	SW	2.2	SSW	1.8	SW	1.8	SW	2.2	SW	2.7	SW	1.3	SW	0.9
01:00-02:00	SW	2.2	SW	1.3	SW	1.8	SW	1.8	SW	2.2	SW	1.3	SW	1.3
02:00-03:00	SW	1.8	SW	1.3	SW	2.2	SW	2.2	SW	2.2	SW	1.3	SW	1.8
03:00-04:00	SW	0.9	SSW	1.8	SW	1.8	SW	2.2	SW	2.2	SW	1.3	SSW	0.9
04:00-05:00	SW	1.3	SW	1.8	SW	2.2	SW	1.8	SW	2.2	SW	1.3	SW	0.9
05:00-06:00	SW	0.9	SSW	1.3	SSW	1.8	SW	1.8	SW	2.7	SW	1.3	SW	0.9
06:00-07:00	SW	1.8	SW	1.8	SW	1.8	SW	1.8	SW	2.7	SSW	1.8	SW	1.3
07:00-08:00	WSW	0.9	SW	1.3	SSW	1.8	SSW	1.8	ESE	2.2	S	2.2	SW	0.9
08:00-09:00	WSW	0.9	SW	1.8	SW	2.2	SSW	1.8	ENE	0.9	S	1.3	SW	1.3
09:00-10:00	SW	1.3	SW	1.8	SW	1.8	SW	2.2	-	Calm	SSW	1.8	SW	2.2
10:00-11:00	SW	0.9	SW	2.2	SW	1.8	SW	2.2	NW	0.9	SW	1.3	SW	1.8
11:00-12:00	SW	1.3	SSW	2.2	SW	2.7	SW	3.1	-	Calm	SW	1.8	SW	1.3

Measurement Method : - Wind Speed and Wind Direction recording meter
Remarks : - WS = Wind Speed
- WD = Wind Direction

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Chak Klang
SAMPLING DATE : March 11-18, 2024
SAMPLING BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	0.60	-	-	-	-
E	-	-	-	-	-
ESE	-	-	0.60	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	0.60	2.38	0.60	-
SSW	1.19	7.14	5.36	-	-
SW	6.55	30.36	35.71	4.76	-
WSW	1.79	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	0.60	-	-	-	-
NNW	-	-	-	-	-
CALM	1.79				

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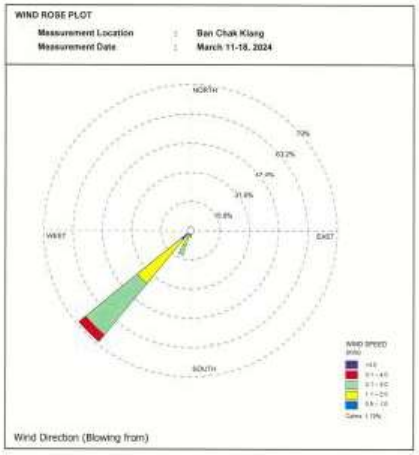
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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : MC Adsorber V-487, TPCC 1 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 12, 2024
SAMPLING TIME : 11:05-11:35 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	17	-	-
Stack Temperature		°C	90.1	-	-
Air Velocity		m/s	1.98	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm³/hr	128	-	
O_2		%	17.62	-	U.S.EPA Method 3
CO_2		%	1.87	-	
Methylene Chloride	at actual O_2	mg/m³	0.026	>556	U.S.EPA Method 18
	Emission Rate	g/sec	0.0002	>0.097	Calculation

Remark: - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
Source: [1/] The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6208 dated June 28, B.E 2555 (2012).

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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : HE Adsorber 2V-681, TPCC 1 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 12, 2024
SAMPLING TIME : 11:10-12:10 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	64	-	-
Stack Temperature		°C	55.3	-	-
Air Velocity		m/s	17.02	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm³/hr	17,012	-	
O_2		%	20.78	-	U.S.EPA Method 3
CO_2		%	0.00	-	
Heptane	at actual O_2	mg/m³	N.D.	>358.5	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>2.127	Calculation
Methylene Chloride	at actual O_2	mg/m³	N.D.	>229.9	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>1.395	Calculation

Remarks : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected, Detection Limit of Heptane <0.88 mg/m³ and emission rate <0.004 g/s
Detection Limit of Methylene Chloride <0.18 mg/m³ and emission rate <0.001 g/s
Source : [1/] The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6208 dated June 28, B.E 2555 (2012).

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Report No. : 2024-500000948-1 / 004-3 (Page 1 of 1) **Issued date** : March 29, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality **SAMPLING DATE** : March 11, 2024
SAMPLING LOCATION : MC Adsorber 3V-487, TPCC 2 Plant **SAMPLING TIME** : 11:50-12:20 hrs.
SAMPLING BY : Natthaphon Taprap

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	26	-	-
Stack Temperature		°C	74.4	-	-
Air Velocity		m/s	2.55	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm³/hr	401	-	
O_2		%	16.24	-	U.S.EPA Method 3
CO_2		%	2.63	-	
Methylene Chloride	at actual O_2	mg/m³	0.021	≯1,029	U.S.EPA Method 18
	Emission Rate	g/sec	0.0004	≯0.110	Calculation

Remarks : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
Source : 1/ The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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Report No. : 2024-500000948-1 / 004-4 (Page 1 of 1) **Issued date** : March 29, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality **SAMPLING DATE** : March 11, 2024
SAMPLING LOCATION : HE Adsorber 3V-681, TPCC 2 Plant **SAMPLING TIME** : 10:25-11:25 hrs.
SAMPLING BY : Natthaphon Taprap

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	100	-	-
Stack Temperature		°C	51.3	-	-
Air Velocity		m/s	18.68	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm³/hr	44,682	-	
O_2		%	17.62	-	U.S.EPA Method 3
CO_2		%	1.87	-	
Heptane	at actual O_2	mg/m³	N.D.	≯225	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	≯4.750	Calculation
Methylene Chloride	at actual O_2	mg/m³	0.022	≯126.1	U.S.EPA Method 18
	Emission Rate	g/sec	0.048	≯2.349	Calculation

Remark : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected, Detection Limit of Heptane <0.88 mg/m³ and emission rate <0.011 g/s
Source : 1/ The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality **SAMPLING DATE** : March 12, 2024
SAMPLING LOCATION : HE Adsorber V-681, TPCC 1 Plant **SAMPLING TIME** : 10:00-11:00 hrs.
SAMPLING BY : Natthaphon Taprap

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	64	-	-
Stack Temperature		°C	55.3	-	-
Air Velocity		m/s	17.03	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm³/hr	16,598	-	
O_2		%	20.78	-	U.S.EPA Method 3
CO_2		%	0.00	-	
Heptane	at actual O_2	mg/m³	N.D.	>368.7	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>2.237	Calculation
Methylene Chloride	at actual O_2	mg/m³	N.D.	>241.6	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>1.466	Calculation

Remarks : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected, Detection Limit of Heptane <0.88 mg/m³ and emission rate <0.004 g/s
Detection Limit of Methylene Chloride <0.18 mg/m³ and emission rate <0.001 g/s
Source : 1/ The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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Report No. : 2024-500000948-1 / 006-1 (Page 1 of 1) **Issued date** : March 14, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Noise Level **MEASUREMENT DATE** : March 4-5, 2024
MEASUREMENT LOCATION : North Fence of Project TPCC **MEASURED BY** : Rawin Sanglemngam
CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 2112037B0, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : Model ST-21D, Serial No.820714

Time	Noise Level [dB(A)]		Standard[1/]
	Leq	L90	
11:00-12:00	64.6	58.4	
12:00-13:00	61.3	57.2	
13:00-14:00	63.8	58.6	
14:00-15:00	62.1	58.1	
15:00-16:00	62.2	57.4	
16:00-17:00	62.7	58.6	
17:00-18:00	63.7	60.3	
18:00-19:00	63.2	59.2	
19:00-20:00	62.6	56.4	
20:00-21:00	59.7	53.8	
21:00-22:00	57.4	52.9	
22:00-23:00	57.6	50.3	
23:00-00:00	57.4	51.3	
00:00-01:00	56.4	49.8	
01:00-02:00	53.0	49.7	
02:00-03:00	53.2	48.3	
03:00-04:00	52.4	49.1	
04:00-05:00	53.8	49.9	
05:00-06:00	56.7	52.3	
06:00-07:00	63.2	57.5	
07:00-08:00	65.3	62.2	
08:00-09:00	63.4	59.3	
09:00-10:00	62.4	58.0	
10:00-11:00	61.6	58.3	
Leq 24 hr	**61.4**	-	**>70**
Ldn	**65.1**	-	-
L90 (min-max)	-	**49.1-62.2**	-

Source : 1/ Notification of the National Environment Board No.15, B.E. 2540 (1997).

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Report No. : 2024-500000948-1 / 007-1 (Page 1 of 1) **Issued date** : March 18, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Workplace Air Quality **SAMPLING DATE** : March 4, 2024
SAMPLING LOCATION : TPCC 1 Plant, Rayong Province **SAMPLING BY** : Rawin Sanglemngam

Station	Parameter	Unit	Value	Standard[1] (TLV-TWA)	Analytical Method
Pelletizing Area	Total Dust	mg/m³	0.0722	-	NIOSH 0500
Bagging Area	Total Dust	mg/m³	0.4871	-	NIOSH 0500
CG Production Process	Carbon Monoxide	ppm	0.680	50	OSHA ID 210
	Chlorine	ppm	0.021	1	NIOSH 6011
Polymerization	Methylene Chloride	ppm	N.D.(0.118)	25	NIOSH 1005
	Heptane	ppm	N.D.(0.502)	500	NIOSH 1500
G-Structure	Methylene Chloride	ppm	0.233	25	NIOSH 1005
	Heptane	ppm	N.D.(0.502)	500	NIOSH 1500
P-Structure	Methylene Chloride	ppm	0.344	25	NIOSH 1005
Wastewater Treatment Plant Unit	Methylene Chloride	ppm	N.D.(0.118)	25	NIOSH 1005

Remarks : - TLV-TWA = Threshold Limit Value - Time Weighted Average.
- N.D. = Not detected.
Source : [1] Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Air Quality **SAMPLING DATE** : March 4, 2024
SAMPLING LOCATION : TPCC 2 Plant, Rayong Province **SAMPLING BY** : Rawin Sanglemngm

Station	Parameter	Unit	Value	Standard[1] (TLV-TWA)	Analytical Method
Pelletizing Area	Total Dust	mg/m³	0.0754	-	NIOSH 0500
Bagging Area	Total Dust	mg/m³	0.0751	-	NIOSH 0500
CG Production Process	Carbon Monoxide	ppm	0.832	50	OSHA ID 210
	Chlorine	ppm	0.016	1	NIOSH 6011
Polymerization	Methylene Chloride	ppm	2.051	25	NIOSH 1005
	Heptane	ppm	N.D.(0.486)	500	NIOSH 1500
G-Structure	Methylene Chloride	ppm	N.D.(0.118)	25	NIOSH 1005
	Heptane	ppm	N.D.(0.486)	500	NIOSH 1500
P-Structure	Methylene Chloride	ppm	0.916	25	NIOSH 1005
Wastewater Treatment Plant Unit	Methylene Chloride	ppm	N.D.(0.116)	25	NIOSH 1005

Remarks : - TLV-TWA = Threshold Limit Value - Time Weighted Average.
- N.D. = Not detected.
Source : [1] Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.8 dB(A)
SOUND LEVEL METER NO. : Inspection (PT1) Model ST-21D, Serial No. 820714

Station	Sound Level [dB(A)]
	Inspection Room (PT1)
Sampling Time	10:00-22:00 hr.
1st hr	63.4
2nd hr	62.1
3rd hr	61.0
4th hr	62.4
5th hr	63.8
6th hr	63.1
7th hr	61.2
8th hr	62.4
9th hr	60.3
10th hr	60.0
11th hr	59.8
12th hr	61.4
Leq 12 hrs.	**61.9**
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : Analysis Room (VP1) Model ST-21D, Serial No. 820716

Station	Sound Level [dB(A)]
	Analysis Room (VP1)
Sampling Time	10:00-22:00 hr.
1st hr	65.8
2nd hr	64.8
3rd hr	64.3
4th hr	64.5
5th hr	63.9
6th hr	63.5
7th hr	63.8
8th hr	64.1
9th hr	65.1
10th hr	64.0
11th hr	64.5
12th hr	64.0
Leq 12 hrs.	**64.4**
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province
CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.9 dB(A)
SOUND LEVEL METER NO. : CCR (VP1) Model ST-21D, Serial No 820703

Station	Sound Level [dB(A)]
	CCR (VP1)
Sampling Time	10:00-22:00 hr.
1st hr	64.3
2nd hr	61.1
3rd hr	60.5
4th hr	61.8
5th hr	62.2
6th hr	63.7
7th hr	62.0
8th hr	62.4
9th hr	62.5
10th hr	62.6
11th hr	61.4
12th hr	63.4
Leq 12 hrs.	62.5
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province
CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.8 dB(A)
SOUND LEVEL METER NO. : CCR (PT1) Model ST-21D, Serial No 820712

Station	Sound Level [dB(A)]
	CCR (PT1)
Sampling Time	10:00-22:00 hr.
1st hr	68.5
2nd hr	70.4
3rd hr	65.5
4th hr	66.0
5th hr	67.2
6th hr	66.1
7th hr	66.6
8th hr	68.1
9th hr	68.7
10th hr	67.4
11th hr	64.8
12th hr	64.8
Leq 12 hrs.	67.3
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Report No. : 2024-500000948-1 / 005-2 (Page 1 of 2) Issued date : March 14, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : March 4, 2024
MEASUREMENT LOCATION : TPCC 2 Plant, Rayong Province
CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : CCR (VP2) Model ST-21D Serial No. 820710

Station	Sound Level [dB(A)]
	CCR (VP2)
Sampling Time	10:00-22:00 hr.
1st hr	67.4
2nd hr	64.4
3rd hr	63.2
4th hr	64.1
5th hr	64.9
6th hr	66.1
7th hr	65.4
8th hr	64.7
9th hr	63.3
10th hr	65.8
11th hr	65.3
12th hr	64.7
Leq 12 hrs.	65.1
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : March 4, 2024
MEASUREMENT LOCATION : TPCC 2 Plant, Rayong Province
CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.6 dB(A)
SOUND LEVEL METER NO. : CCR (PT2) Model ST-21D Serial No. 820711

Station	Sound Level [dB(A)]
	CCR (PT2)
Sampling Time	10:00-22:00 hr.
1st hr	64.8
2nd hr	63.3
3rd hr	63.0
4th hr	66.4
5th hr	64.7
6th hr	62.0
7th hr	64.5
8th hr	64.7
9th hr	65.7
10th hr	65.0
11th hr	64.2
12th hr	59.9
Leq 12 hrs.	64.3
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Report No. : 2024-500000514-1 / 001-1 (Page 1 of 1) **Issued date** : January 17, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	1. Acetaldehyde	3.34	6.02	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.60	1.92	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	0.28	0.62	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	0.16	0.78	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	0.20	0.81	48
	13. Dichloromethane	2.11	7.34	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.8416 and Regulator No.14711.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000514-1 / 001-2 (Page 1 of 1) **Issued date** : January 17, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	1. Acetaldehyde	3.32	5.99	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.56	1.79	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	0.24	0.53	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	0.20	0.98	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	0.20	0.81	48
	13. Dichloromethane	6.16	21.42	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.1088 and Regulator No.2085.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000514-1 / 001-3 (Page 1 of 1) **Issued date** : January 17, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	1. Acetaldehyde	2.72	4.91	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.40	1.28	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.76	2.64	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.24125 and Regulator No.14173.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000514-1 / 001-4 (Page 1 of 1) **Issued date** : January 17, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Wat Nong Faab School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faab School	1. Acetaldehyde	3.30	5.95	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.52	1.66	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	0.28	1.37	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.72	2.50	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7101 and Regulator No.76427.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000514-1 / 001-5 (Page 1 of 1) **Issued date** : January 17, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	Dichloromethane (Methylene Chloride)	2.11	7.34	210

Remarks : - Canister Tank No.8416 and Regulator No.14711.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000514-1 / 001-6 (Page 1 of 1) **Issued date** : January 17, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	Dichloromethane (Methylene Chloride)	6.16	21.42	210

Remarks : - Canister Tank No.1088 and Regulator No.2085.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	0.76	2.64	210

Remarks : - Canister Tank No.24125 and Regulator No.14173.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000514-1 / 001-8 (Page 1 of 1) **Issued date** : January 17, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : January 4-5, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	Dichloromethane (Methylene Chloride)	0.72	2.50	210

Remarks : - Canister Tank No.7101 and Regulator No.76427.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	ENE	2.2
10:00-11:00	E	2.2
11:00-12:00	S	2.2
12:00-13:00	SW	2.7
13:00-14:00	SW	2.7
14:00-15:00	SW	2.2
15:00-16:00	SW	2.2
16:00-17:00	SW	1.8
17:00-18:00	SW	1.8
18:00-19:00	SW	1.8
19:00-20:00	W	1.3
20:00-21:00	W	0.9
21:00-22:00	WNW	0.9
22:00-23:00	-	Calm
23:00-00:00	-	Calm
00:00-01:00	-	Calm
01:00-02:00	NE	0.9
02:00-03:00	-	Calm
03:00-04:00	NE	0.9
04:00-05:00	NE	1.8
05:00-06:00	NE	2.2
06:00-07:00	NE	2.2
07:00-08:00	NE	2.7
08:00-09:00	NE	2.7

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	8.33	4.17	16.67	-	-
ENE	-	-	4.17	-	-
E	-	-	4.17	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	4.17	-	-
SSW	-	-	-	-	-
SW	-	12.50	16.67	-	-
WSW	-	-	-	-	-
W	4.17	4.17	-	-	-
WNW	4.17	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	16.67				

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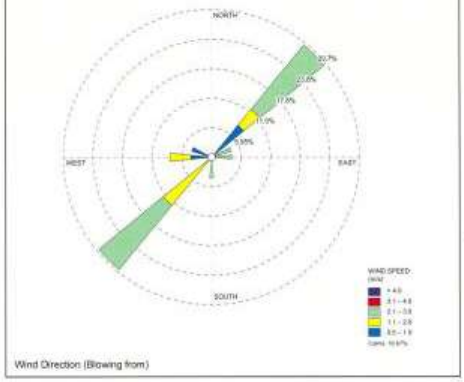
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (North Wind)
Measurement Date : January 4-5, 2024



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	ESE	2.2
10:00-11:00	ESE	2.7
11:00-12:00	SSW	3.6
12:00-13:00	SSW	4.0
13:00-14:00	SSW	3.6
14:00-15:00	SSW	3.1
15:00-16:00	SSW	3.1
16:00-17:00	SSW	2.7
17:00-18:00	WNW	1.3
18:00-19:00	WNW	1.8
19:00-20:00	WNW	1.3
20:00-21:00	NW	0.9
21:00-22:00	WNW	1.3
22:00-23:00	-	Calm
23:00-00:00	-	Calm
00:00-01:00	-	Calm
01:00-02:00	-	Calm
02:00-03:00	-	Calm
03:00-04:00	-	Calm
04:00-05:00	NNE	0.9
05:00-06:00	NNE	1.3
06:00-07:00	NNE	1.8
07:00-08:00	NNE	2.2
08:00-09:00	NNE	2.2

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	4.17	8.33	8.33	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	8.33	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	4.17	20.83	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	16.67	-	-	-
NW	4.17	-	-	-	-
NNW	-	-	-	-	-
CALM	25.00				

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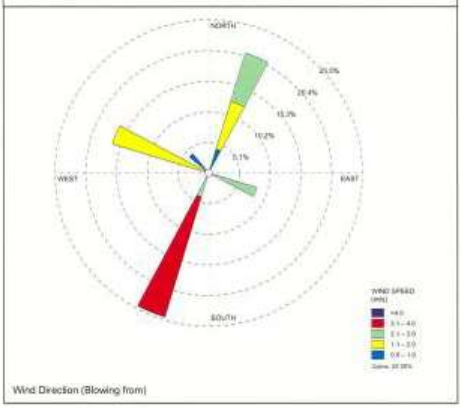
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (Down Wind)
Measurement Date : January 4-5, 2024



Wind Direction (Blowing from)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	-	Calm
10:00-11:00	NNE	0.9
11:00-12:00	ENE	1.3
12:00-13:00	SE	2.2
13:00-14:00	SE	3.1
14:00-15:00	S	2.7
15:00-16:00	S	2.2
16:00-17:00	S	1.8
17:00-18:00	S	1.8
18:00-19:00	S	1.8
19:00-20:00	SSW	0.9
20:00-21:00	-	Calm
21:00-22:00	-	Calm
22:00-23:00	-	Calm
23:00-00:00	-	Calm
00:00-01:00	-	Calm
01:00-02:00	-	Calm
02:00-03:00	-	Calm
03:00-04:00	-	Calm
04:00-05:00	-	Calm
05:00-06:00	-	Calm
06:00-07:00	-	Calm
07:00-08:00	-	Calm
08:00-09:00	NNE	0.9

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	8.33	-	-	-	-
NE	-	-	-	-	-
ENE	-	4.17	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	4.17	4.17	-
SSE	-	-	-	-	-
S	-	12.50	8.33	-	-
SSW	4.17	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	54.17				

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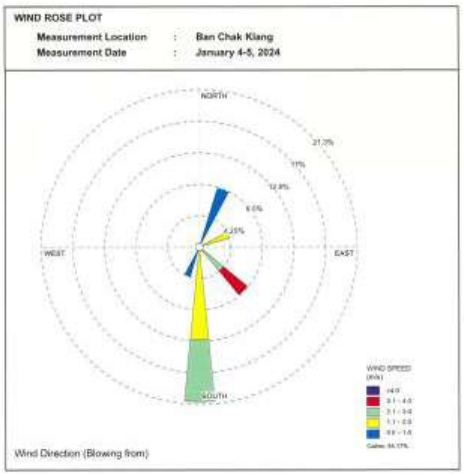
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	ESE	1.8
10:00-11:00	SE	2.7
11:00-12:00	SSE	3.1
12:00-13:00	SSE	3.1
13:00-14:00	S	2.2
14:00-15:00	SSE	2.2
15:00-16:00	SSW	1.8
16:00-17:00	SW	1.8
17:00-18:00	WSW	0.9
18:00-19:00	-	Calm
19:00-20:00	-	Calm
20:00-21:00	-	Calm
21:00-22:00	-	Calm
22:00-23:00	-	Calm
23:00-00:00	-	Calm
00:00-01:00	-	Calm
01:00-02:00	-	Calm
02:00-03:00	-	Calm
03:00-04:00	-	Calm
04:00-05:00	-	Calm
05:00-06:00	NE	0.9
06:00-07:00	NE	0.9
07:00-08:00	NNE	1.3
08:00-09:00	NNE	1.3

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	8.33	-	-	-
NE	8.33	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	4.17	-	-	-
SE	-	-	4.17	-	-
SSE	-	-	4.17	8.33	-
S	-	-	4.17	-	-
SSW	-	4.17	-	-	-
SW	-	4.17	-	-	-
WSW	4.17	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	45.83				

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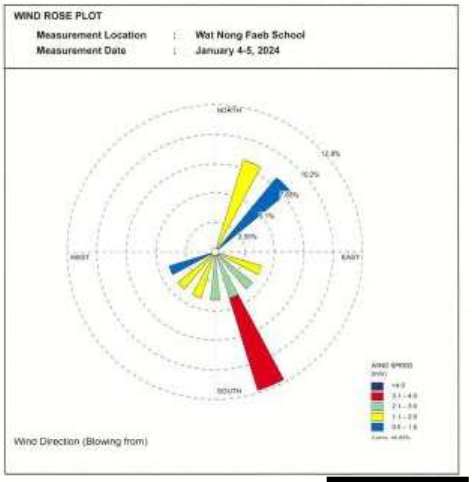
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : January 4-5, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam



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Report No. : 2024-500000684-1 / 001-1 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1/] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	1. Acetaldehyde	2.52	4.55	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.08	0.26	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	2.20	7.65	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7098 and Regulator No.1584.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : 1/ Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-2 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1/] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	1. Acetaldehyde	2.99	5.39	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.52	1.81	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7265 and Regulator No.5803.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : 1/ Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-3 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1/] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	1. Acetaldehyde	2.07	3.73	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.16	0.51	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.56	1.95	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.24129 and Regulator No.5795.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : 1/ Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-4 (Page 1 of 1) **Issued date** : February 13, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1/] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	1. Acetaldehyde	1.07	1.93	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.48	1.67	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.23853 and Regulator No.14709.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : 1/ Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-5 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	Dichloromethane (Methylene Chloride)	2.20	7.65	210

Remarks : - Canister Tank No.7098 and Regulator No.1584.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-6 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	Dichloromethane (Methylene Chloride)	0.52	1.81	210

Remarks : - Canister Tank No.7265 and Regulator No.5803.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-7 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	0.56	1.95	210

Remarks : - Canister Tank No.2412 and Regulator No.5795.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000684-1 / 001-8 (Page 1 of 1) **Issued date** : February 13, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : February 1-2, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	Dichloromethane (Methylene Chloride)	0.48	1.67	210

Remarks : - Canister Tank No.23853 and Regulator No.14709.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	SSW	2.2
10:00-11:00	SW	2.7
11:00-12:00	SW	2.2
12:00-13:00	SSW	2.2
13:00-14:00	SW	2.7
14:00-15:00	SW	2.7
15:00-16:00	SW	3.1
16:00-17:00	SSW	3.1
17:00-18:00	SSW	2.7
18:00-19:00	SW	2.2
19:00-20:00	SSW	1.3
20:00-21:00	SW	1.3
21:00-22:00	SSW	1.3
22:00-23:00	SSW	1.3
23:00-00:00	SSW	1.3
00:00-01:00	SW	1.3
01:00-02:00	SW	1.8
02:00-03:00	SSW	1.8
03:00-04:00	SSW	2.2
04:00-05:00	SSW	1.8
05:00-06:00	SSW	1.8
06:00-07:00	SSW	1.3
07:00-08:00	SW	0.9
08:00-09:00	SSW	0.9

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	4.17	33.33	16.67	4.17	-
SW	4.17	12.50	20.83	4.17	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

[redacted]

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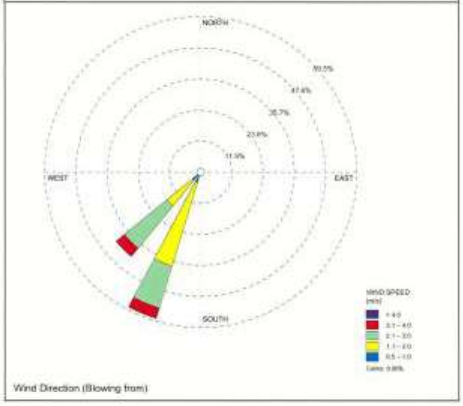
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (North Wind)
Measurement Date : February 1-2, 2024



Wind Direction (Blowing from)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	WSW	3.1
12:00-13:00	WSW	3.6
13:00-14:00	WSW	3.6
14:00-15:00	WSW	4.0
15:00-16:00	WNW	3.6
16:00-17:00	W	4.0
17:00-18:00	WSW	3.1
18:00-19:00	W	2.7
19:00-20:00	W	2.7
20:00-21:00	W	2.7
21:00-22:00	WSW	2.2
22:00-23:00	WSW	2.2
23:00-00:00	WSW	2.7
00:00-01:00	W	3.1
01:00-02:00	WNW	2.7
02:00-03:00	W	3.1
03:00-04:00	WNW	3.1
04:00-05:00	WSW	2.7
05:00-06:00	WSW	2.7
06:00-07:00	W	2.7
07:00-08:00	W	2.2
08:00-09:00	W	2.2
09:00-10:00	SW	2.7
10:00-11:00	W	2.7

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	4.17	-	-
WSW	-	-	20.83	20.83	-
W	-	-	29.17	12.50	-
WNW	-	-	4.17	8.33	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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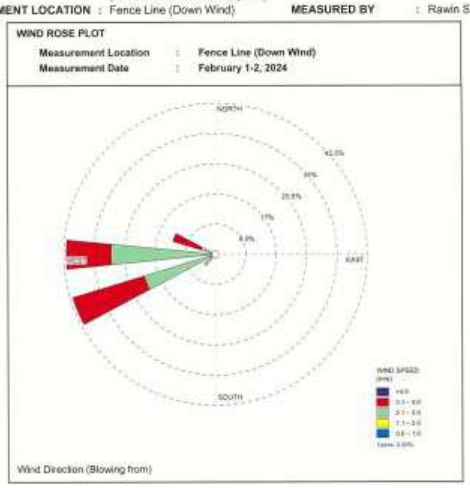
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	SSW	2.7
12:00-13:00	SSW	2.7
13:00-14:00	SSW	2.2
14:00-15:00	SSW	2.7
15:00-16:00	SSW	2.2
16:00-17:00	SSW	2.2
17:00-18:00	S	1.8
18:00-19:00	SSW	1.3
19:00-20:00	SSW	0.9
20:00-21:00	SSW	0.9
21:00-22:00	SSW	1.3
22:00-23:00	S	2.2
23:00-00:00	SSW	1.8
00:00-01:00	SSW	0.9
01:00-02:00	-	Calm
02:00-03:00	-	Calm
03:00-04:00	-	Calm
04:00-05:00	-	Calm
05:00-06:00	-	Calm
06:00-07:00	-	Calm
07:00-08:00	NW	0.9
08:00-09:00	-	Calm
09:00-10:00	SSW	0.9
10:00-11:00	SSW	1.8

Measurement Method : - Wind speed and Wind direction recording meter) ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	4.17	4.17	-	-
SSW	16.67	16.67	25.00	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	4.17	-	-	-	-
NNW	-	-	-	-	-
CALM	29.17				

[redacted]

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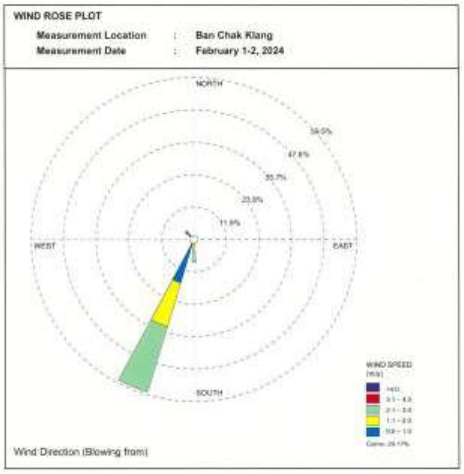
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	SW	1.8
12:00-13:00	SSW	2.2
13:00-14:00	SW	2.2
14:00-15:00	SW	2.2
15:00-16:00	SW	2.2
16:00-17:00	SW	2.2
17:00-18:00	WSW	1.8
18:00-19:00	WSW	1.3
19:00-20:00	SW	1.3
20:00-21:00	SW	0.9
21:00-22:00	SSW	1.3
22:00-23:00	SSW	1.3
23:00-00:00	SW	1.8
00:00-01:00	SSW	1.8
01:00-02:00	SW	1.3
02:00-03:00	SW	0.9
03:00-04:00	-	Calm
04:00-05:00	-	Calm
05:00-06:00	-	Calm
06:00-07:00	-	Calm
07:00-08:00	WSW	0.9
08:00-09:00	WSW	0.9
09:00-10:00	SSW	0.9
10:00-11:00	SSW	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	4.17	16.67	4.17	-	-
SW	8.33	16.67	16.67	-	-
WSW	8.33	8.33	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	16.67				

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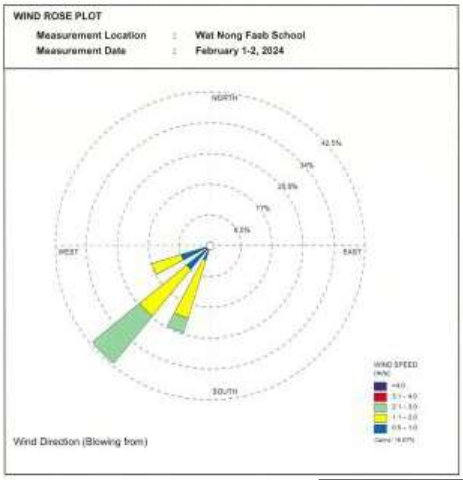
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : February 1-2, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam



[redacted]

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Report No. : 2024-500000948-1 / 001-1 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	1. Acetaldehyde	5.44	9.81	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	17.08	59.38	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.1088 and Regulator No.4709.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-2 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	1. Acetaldehyde	2.28	4.11	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.12	0.42	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.17101 and Regulator No.1287.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-3 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	1. Acetaldehyde	2.00	3.61	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.08	0.26	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	0.48	1.06	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.24	0.83	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7269 and Regulator No.2243.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-4 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	1. Acetaldehyde	1.64	2.96	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.08	0.28	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.11595 and Regulator No.5801.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-5 (Page 1 of 1) **Issued date** : March 21, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	Dichloromethane (Methylene Chloride)	17.08	59.38	210

Remarks : - Canister Tank No.1088 and Regulator No.4709.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-6 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	Dichloromethane (Methylene Chloride)	0.12	0.42	210

Remarks : - Canister Tank No.17101 and Regulator No.1287.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-7 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	0.24	0.83	210

Remarks : - Canister Tank No.7269 and Regulator No.2243.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500000948-1 / 001-8 (Page 1 of 1) **Issued date** : March 21, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : March 7-8, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	Dichloromethane (Methylene Chloride)	0.08	0.28	210

Remarks : - Canister Tank No.11595 and Regulator No.5801.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	SE	2.2
10:00-11:00	SW	2.2
11:00-12:00	SW	2.2
12:00-13:00	SW	3.1
13:00-14:00	SW	2.7
14:00-15:00	SW	3.1
15:00-16:00	SW	2.2
16:00-17:00	SSW	2.2
17:00-18:00	W	1.8
18:00-19:00	SW	1.8
19:00-20:00	SW	1.3
20:00-21:00	S	1.8
21:00-22:00	SSW	1.3
22:00-23:00	SSW	1.3
23:00-00:00	SSE	1.8
00:00-01:00	SSE	1.8
01:00-02:00	SSW	1.8
02:00-03:00	SSW	1.8
03:00-04:00	SSW	1.8
04:00-05:00	SSW	1.8
05:00-06:00	S	1.3
06:00-07:00	S	1.8
07:00-08:00	SSE	1.8
08:00-09:00	S	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	4.17	-	-
SSE	-	12.50	-	-	-
S	-	16.67	-	-	-
SSW	-	25.00	4.17	-	-
SW	-	8.33	16.67	8.33	-
WSW	-	-	-	-	-
W	-	4.17	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

[redacted]

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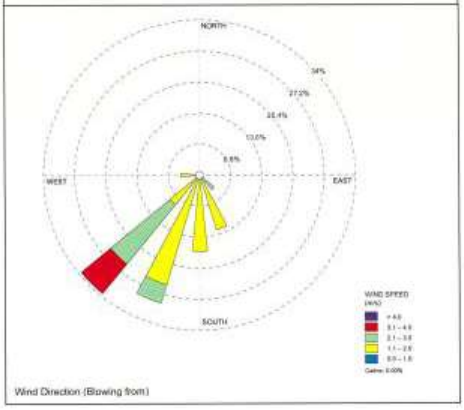
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (North Wind)
Measurement Date : March 7-8, 2024



Wind Direction (Blowing from)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	S	3.6
12:00-13:00	S	3.6
13:00-14:00	SSW	4.0
14:00-15:00	S	3.6
15:00-16:00	S	4.0
16:00-17:00	S	3.6
17:00-18:00	S	3.6
18:00-19:00	S	3.1
19:00-20:00	S	3.1
20:00-21:00	S	2.7
21:00-22:00	SSW	2.7
22:00-23:00	S	2.7
23:00-00:00	S	2.7
00:00-01:00	S	2.7
01:00-02:00	S	3.1
02:00-03:00	SSE	3.1
03:00-04:00	SSE	3.1
04:00-05:00	SSE	2.7
05:00-06:00	SSE	3.1
06:00-07:00	SSE	2.7
07:00-08:00	S	2.7
08:00-09:00	S	2.7
09:00-10:00	S	3.1
10:00-11:00	S	3.6

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	8.33	12.50	-
S	-	-	25.00	45.83	-
SSW	-	-	4.17	4.17	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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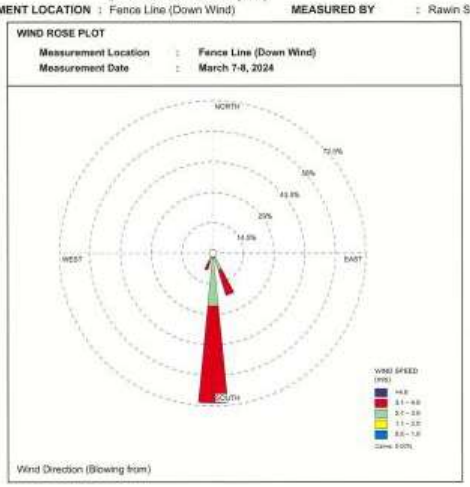
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	SW	2.7
12:00-13:00	SW	2.7
13:00-14:00	SW	2.7
14:00-15:00	SW	3.1
15:00-16:00	SW	3.1
16:00-17:00	SW	2.7
17:00-18:00	SW	2.2
18:00-19:00	SSW	1.8
19:00-20:00	SW	1.3
20:00-21:00	SW	1.8
21:00-22:00	WSW	1.3
22:00-23:00	SW	1.3
23:00-00:00	SSW	2.7
00:00-01:00	S	2.7
01:00-02:00	SW	2.7
02:00-03:00	SW	2.2
03:00-04:00	SW	2.2
04:00-05:00	SW	2.7
05:00-06:00	SW	2.2
06:00-07:00	S	2.7
07:00-08:00	S	3.1
08:00-09:00	S	3.6
09:00-10:00	S	3.6
10:00-11:00	S	3.1

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	8.33	16.67	-
SSW	-	4.17	4.17	-	-
SW	-	12.50	41.67	8.33	-
WSW	-	4.17	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

[redacted]

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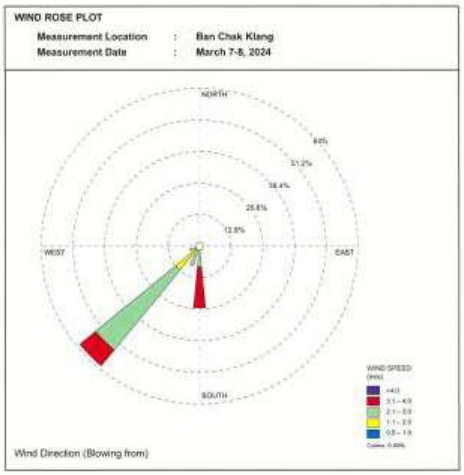
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	S	1.8
11:00-12:00	S	2.2
12:00-13:00	S	2.2
13:00-14:00	S	2.2
14:00-15:00	S	1.8
15:00-16:00	SSW	1.8
16:00-17:00	WSW	1.8
17:00-18:00	SW	1.8
18:00-19:00	WSW	1.3
19:00-20:00	SW	1.3
20:00-21:00	SW	1.3
21:00-22:00	WSW	0.9
22:00-23:00	WSW	1.3
23:00-00:00	S	1.3
00:00-01:00	S	1.8
01:00-02:00	SW	1.3
02:00-03:00	SW	1.8
03:00-04:00	SW	1.3
04:00-05:00	SW	1.8
05:00-06:00	SSW	1.3
06:00-07:00	S	1.3
07:00-08:00	S	1.3
08:00-09:00	S	1.8
09:00-10:00	S	1.8

Measurement Method : - Wind speed and Wind direction recording meter (IEC)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	33.33	12.50	-	-
SSW	-	8.33	-	-	-
SW	-	29.17	-	-	-
WSW	4.17	12.50	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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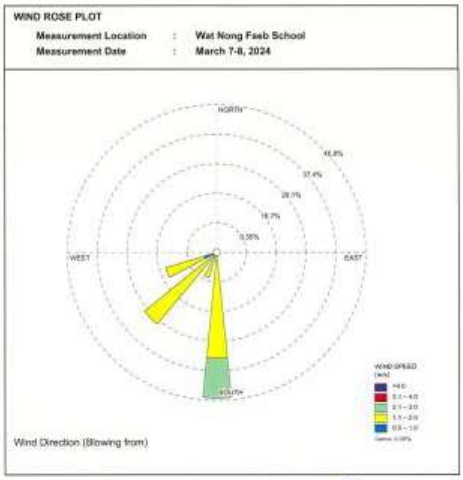
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : March 7-8, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam



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Report No. : 2024-500001214 / 001-1 (Page 1 of 1) **Issued date** : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	1. Acetaldehyde	2.03	3.66	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	0.20	0.44	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	31.64	110.00	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7104 and Regulator No.2243.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001214 / 001-2 (Page 1 of 1) **Issued date** : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	1. Acetaldehyde	1.88	3.39	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	0.24	0.53	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.11597 and Regulator No.1287.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001214 / 001-3 (Page 1 of 1) **Issued date** : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	1. Acetaldehyde	1.68	3.03	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.16	0.56	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7100 and Regulator No.079.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	1. Acetaldehyde	2.84	5.12	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.9253 and Regulator No.19139.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001214 / 001-5 (Page 1 of 1) **Issued date** : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	Dichloromethane (Methylene Chloride)	31.64	110.00	210

Remarks : - Canister Tank No.7104 and Regulator No.2243.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.11597 and Regulator No.1287.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

[redacted]

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Report No. : 2024-500001214 / 001-7 (Page 1 of 1) **Issued date** : April 18, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
CONTACT : Khun Sommai Sriprom
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E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	0.16	0.56	210

Remarks : - Canister Tank No.7100 and Regulator No.079.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001214 / 001-8 (Page 1 of 1) **Issued date** : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : April 2-3, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.9253 and Regulator No.19139.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	SW	2.2
10:00-11:00	SW	2.2
11:00-12:00	SW	2.7
12:00-13:00	SW	2.7
13:00-14:00	SW	2.7
14:00-15:00	S	2.7
15:00-16:00	SSE	2.7
16:00-17:00	S	2.2
17:00-18:00	S	2.2
18:00-19:00	S	1.8
19:00-20:00	S	1.8
20:00-21:00	S	2.2
21:00-22:00	S	1.8
22:00-23:00	S	2.2
23:00-00:00	SSW	1.8
00:00-01:00	SSW	1.8
01:00-02:00	SSW	1.8
02:00-03:00	SW	1.3
03:00-04:00	SSW	1.3
04:00-05:00	SW	1.8
05:00-06:00	SW	1.8
06:00-07:00	SSW	1.8
07:00-08:00	SSW	1.8
08:00-09:00	S	2.2

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	4.17	-	-
S	-	12.50	25.00	-	-
SSW	-	25.00	-	-	-
SW	-	12.50	20.83	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

[redacted]

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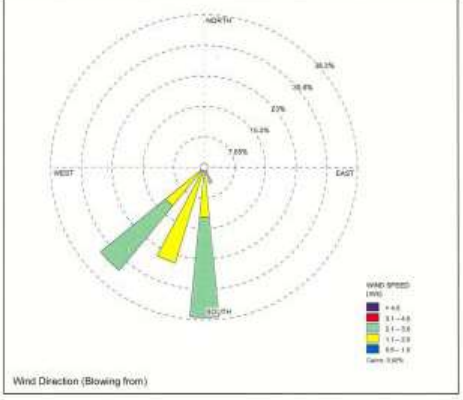
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (North Wind)
Measurement Date : April 2-3, 2024



Wind Direction (Blowing from)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	SSW	3.1
10:00-11:00	SSW	3.6
11:00-12:00	SSW	3.6
12:00-13:00	S	4.0
13:00-14:00	SSW	3.6
14:00-15:00	SSW	4.0
15:00-16:00	S	3.6
16:00-17:00	SSW	3.6
17:00-18:00	S	3.6
18:00-19:00	S	3.1
19:00-20:00	SE	3.1
20:00-21:00	S	3.1
21:00-22:00	S	3.1
22:00-23:00	S	3.1
23:00-00:00	S	3.1
00:00-01:00	SSW	3.1
01:00-02:00	S	3.1
02:00-03:00	SSW	2.7
03:00-04:00	SSW	3.1
04:00-05:00	S	2.7
05:00-06:00	S	2.7
06:00-07:00	S	3.1
07:00-08:00	S	3.6
08:00-09:00	S	4.0

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

[redacted]

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	4.17	-
SSE	-	-	-	-	-
S	-	-	8.33	50.00	-
SSW	-	-	4.17	33.33	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

[redacted]

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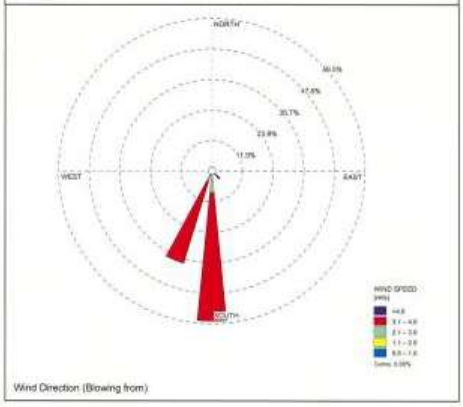
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (Down Wind)
Measurement Date : April 2-3, 2024



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	S	2.7
11:00-12:00	S	3.1
12:00-13:00	S	2.7
13:00-14:00	SSW	3.1
14:00-15:00	S	3.1
15:00-16:00	S	3.1
16:00-17:00	SSE	2.7
17:00-18:00	SSE	2.7
18:00-19:00	SE	1.8
19:00-20:00	SSE	2.2
20:00-21:00	SSE	2.2
21:00-22:00	SE	2.2
22:00-23:00	SSE	2.7
23:00-00:00	S	3.1
00:00-01:00	SSW	2.2
01:00-02:00	SSW	2.2
02:00-03:00	SSW	1.8
03:00-04:00	SSW	1.3
04:00-05:00	S	1.8
05:00-06:00	S	2.7
06:00-07:00	SSW	3.1
07:00-08:00	S	3.1
08:00-09:00	S	3.1
09:00-10:00	SSE	3.1

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	4.17	4.17	-	-
SSE	-	-	20.83	4.17	-
S	-	4.17	12.50	25.00	-
SSW	-	8.33	8.33	8.33	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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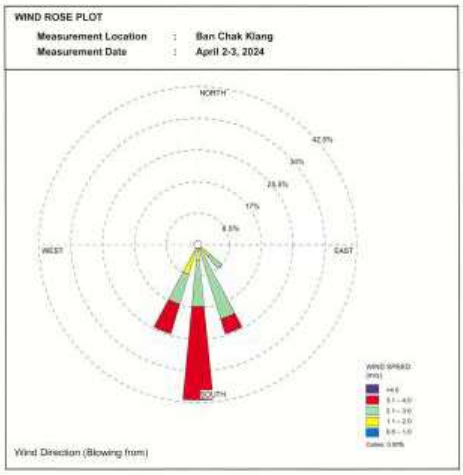
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Report No. : 2024-500001214 / 002-3 (Page 3 of 3) Issued date : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam



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Report No. : 2024-500001214 / 002-4 (Page 1 of 3) Issued date : April 18, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	SSW	2.2
11:00-12:00	SSE	2.7
12:00-13:00	SSE	2.7
13:00-14:00	SSE	2.2
14:00-15:00	SE	2.7
15:00-16:00	SSE	2.7
16:00-17:00	SE	2.7
17:00-18:00	SE	2.2
18:00-19:00	SSE	2.2
19:00-20:00	SSE	2.2
20:00-21:00	SSE	2.7
21:00-22:00	SE	2.2
22:00-23:00	SSE	2.2
23:00-00:00	S	1.8
00:00-01:00	SSW	1.8
01:00-02:00	SSW	1.8
02:00-03:00	SSW	1.8
03:00-04:00	SW	1.3
04:00-05:00	SSW	1.3
05:00-06:00	SSW	1.3
06:00-07:00	SSW	1.8
07:00-08:00	S	1.8
08:00-09:00	SSE	2.2
09:00-10:00	SE	2.7

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Report No. : 2024-500001214 / 002-4 (Page 2 of 3) Issued date : April 18, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	20.83	-	-
SSE	-	-	37.50	-	-
S	-	8.33	-	-	-
SSW	-	25.00	4.17	-	-
SW	-	4.17	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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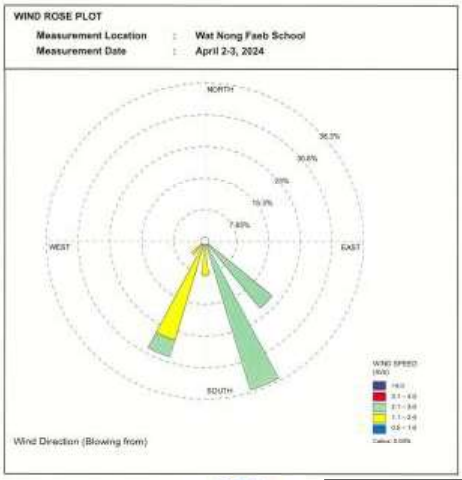
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Report No. : 2024-500001214 / 002-4 (Page 3 of 3) Issued date : April 18, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : April 2-3, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam



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Report No. : 2024-500001438-1 / 001-1 (Page 1 of 1) **Issued date** : May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	1. Acetaldehyde	1.19	2.15	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	2.01	6.99	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.11596 and Regulator No.1010.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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E 283917

Report No. : 2024-500001438 / 001-2 (Page 1 of 1) **Issued date** : May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	1. Acetaldehyde	1.80	3.25	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.24130 and Regulator No.2065.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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E 283918

Report No. : 2024-500001438 / 001-3 (Page 1 of 1) **Issued date** : May 20, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	1. Acetaldehyde	3.02	5.45	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	0.08	0.26	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.12	0.42	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.7112 and Regulator No.1930.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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E 283919

Report No. : 2024-500001438 / 001-4 (Page 1 of 1) **Issued date** : May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	1. Acetaldehyde	2.75	4.96	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.24126 and Regulator No.5797.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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E 283920

Report No. : 2024-500001438 / 001-5 (Page 1 of 1) **Issued date** : May 20, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	Dichloromethane (Methylene Chloride)	2.01	6.99	210

Remarks : - Canister Tank No.11596 and Regulator No.1010.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001438 / 001-6 (Page 1 of 1) **Issued date** : May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.24130 and Regulator No.2085.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001438 / 001-7 (Page 1 of 1) **Issued date** : May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	0.12	0.42	210

Remarks : - Canister Tank No.7112 and Regulator No.1930.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001438 / 001-8 (Page 1 of 1) **Issued date** : May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.24126 and Regulator No.5797.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	S	2.2
12:00-13:00	S	2.7
13:00-14:00	SSW	2.7
14:00-15:00	SSW	2.7
15:00-16:00	SSW	2.7
16:00-17:00	SW	2.7
17:00-18:00	SSW	2.2
18:00-19:00	SSW	2.2
19:00-20:00	SSW	1.8
20:00-21:00	SSW	1.8
21:00-22:00	SSW	1.8
22:00-23:00	S	1.8
23:00-00:00	S	1.8
00:00-01:00	SSW	1.8
01:00-02:00	SSW	1.8
02:00-03:00	SSW	1.8
03:00-04:00	SSW	1.3
04:00-05:00	SSW	1.8
05:00-06:00	SSW	1.8
06:00-07:00	SSW	1.8
07:00-08:00	SW	2.2
08:00-09:00	SSW	2.2
09:00-10:00	SSW	1.8
10:00-11:00	SSW	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

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MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	8.33	8.33	-	-
SSW	-	50.00	25.00	-	-
SW	-	-	8.33	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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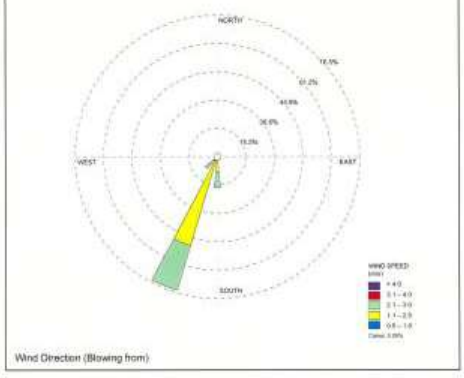
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (North Wind)
Measurement Date : May 2-3, 2024



Wind Direction (Blowing from)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	SSW	3.6
11:00-12:00	S	3.6
12:00-13:00	S	3.6
13:00-14:00	S	3.6
14:00-15:00	SSW	3.6
15:00-16:00	SSW	3.1
16:00-17:00	S	2.7
17:00-18:00	S	2.7
18:00-19:00	S	2.7
19:00-20:00	S	2.7
20:00-21:00	S	2.7
21:00-22:00	S	2.7
22:00-23:00	S	2.7
23:00-00:00	S	2.7
00:00-01:00	S	2.7
01:00-02:00	SSE	2.2
02:00-03:00	S	2.2
03:00-04:00	SSW	2.7
04:00-05:00	S	2.7
05:00-06:00	S	2.7
06:00-07:00	SSW	2.7
07:00-08:00	SSW	2.2
08:00-09:00	SSW	2.2
09:00-10:00	SW	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Report No. : 2024-500001438 / 002-2 (Page 2 of 3) **Issued date :** May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed) **MEASUREMENT DATE** : May 2-3, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind) **MEASURED BY** : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	4.17	-	-
S	-	-	50.00	12.50	-
SSW	-	-	16.67	12.50	-
SW	-	4.17	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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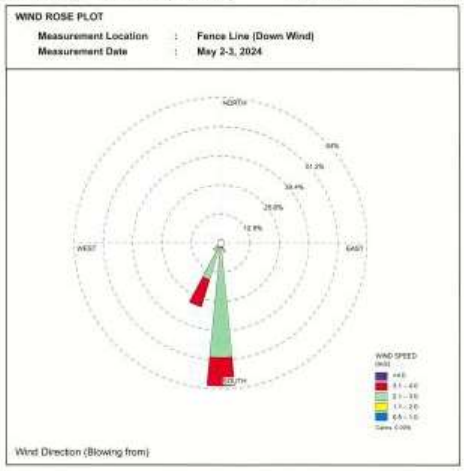
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Report No. : 2024-500001438 / 002-2 (Page 3 of 3) **Issued date :** May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed) **MEASUREMENT DATE** : May 2-3, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind) **MEASURED BY** : Rawin Sanglemngam



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Report No. : 2024-500001438 / 002-3 (Page 1 of 3) **Issued date :** May 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed) **MEASUREMENT DATE :** May 2-3, 2024
MEASUREMENT LOCATION : Bang Chak Klang **MEASURED BY** : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
11:00-12:00	SSW	3.6
12:00-13:00	SW	3.1
13:00-14:00	SSW	3.1
14:00-15:00	SSW	3.1
15:00-16:00	SSW	3.1
16:00-17:00	SSW	2.7
17:00-18:00	S	2.7
18:00-19:00	S	2.7
19:00-20:00	S	2.2
20:00-21:00	S	2.7
21:00-22:00	S	2.7
22:00-23:00	SSW	2.7
23:00-00:00	SSW	2.2
00:00-01:00	SSW	2.2
01:00-02:00	SSW	2.2
02:00-03:00	SSW	2.2
03:00-04:00	SSW	2.2
04:00-05:00	SSW	1.8
05:00-06:00	SSW	1.3
06:00-07:00	SW	2.2
07:00-08:00	SSW	2.7
08:00-09:00	SSW	2.7
09:00-10:00	SSW	2.7
10:00-11:00	S	3.1

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed) **MEASUREMENT DATE :** May 2-3, 2024
MEASUREMENT LOCATION : Bang Chak Klang **MEASURED BY** : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	20.83	4.17	-
SSW	-	8.33	41.67	16.67	-
SW	-	-	4.17	4.17	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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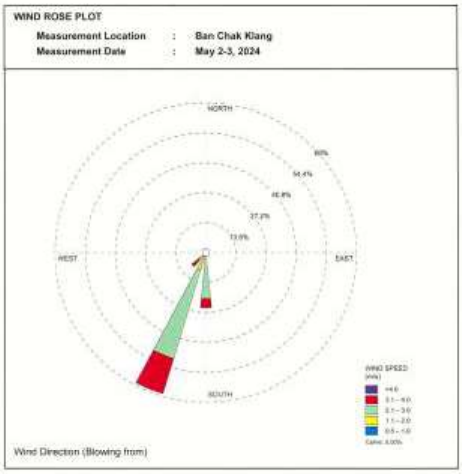
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	SSE	3.1
11:00-12:00	SW	2.7
12:00-13:00	SW	2.7
13:00-14:00	SW	2.7
14:00-15:00	SW	2.7
15:00-16:00	SW	2.2
16:00-17:00	S	1.8
17:00-18:00	SSE	2.2
18:00-19:00	S	1.8
19:00-20:00	SSE	2.2
20:00-21:00	SSE	2.2
21:00-22:00	SSE	1.8
22:00-23:00	SSE	2.2
23:00-00:00	SW	1.3
00:00-01:00	SW	1.8
01:00-02:00	SW	1.8
02:00-03:00	SW	1.8
03:00-04:00	SW	1.8
04:00-05:00	SW	1.8
05:00-06:00	SW	1.8
06:00-07:00	SW	1.8
07:00-08:00	SW	1.8
08:00-09:00	SW	2.2
09:00-10:00	WSW	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

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MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	4.17	16.67	4.17	-
S	-	8.33	-	-	-
SSW	-	-	-	-	-
SW	-	37.50	25.00	-	-
WSW	-	4.17	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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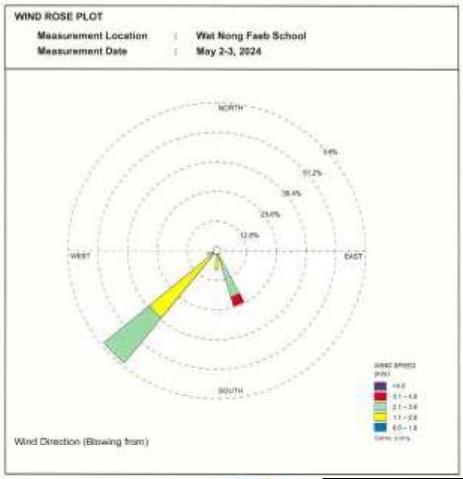
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : May 2-3, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam



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Report No. : 2024-500001639-1 / 001-1 (Page 1 of 1) Issued date : June 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : June 10-11, 2024
SAMPLING LOCATION : Fence Line (North) SAMPLING BY : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	1. Acetaldehyde	1.71	3.08	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.10400 and Regulator No.1581.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001639-1 / 001-2 (Page 1 of 1) Issued date : June 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : June 10-11, 2024
SAMPLING LOCATION : Fence Line (South) SAMPLING BY : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	1. Acetaldehyde	1.75	3.16	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.11592 and Regulator No.5806.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001639-1 / 001-3 (Page 1 of 1) Issued date : June 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : June 10-11, 2024
SAMPLING LOCATION : Ban Chak Klang SAMPLING BY : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	1. Acetaldehyde	1.59	2.87	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	0.12	0.42	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.24120 and Regulator No.19137.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001639-1 / 001-4 (Page 1 of 1) Issued date : June 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : June 10-11, 2024
SAMPLING LOCATION : Wat Nong Faeb School SAMPLING BY : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	1. Acetaldehyde	2.34	4.22	860
	2. Acrolein	<0.10	<0.23	0.55
	3. Acrylonitrile	<0.05	<0.11	10
	4. Benzene	<0.05	<0.16	7.6
	5. Benzyl Chloride	<0.05	<0.26	12
	6. 1,3-butadiene	<0.05	<0.11	5.3
	7. Bromomethane	<0.05	<0.19	190
	8. Carbon Tetrachloride	<0.05	<0.31	150
	9. Chloroform	<0.05	<0.24	57
	10. 1,2 Dibromoethane	<0.05	<0.38	370
	11. 1,4 Dichlorobenzene	<0.05	<0.30	1,100
	12. 1,2-dichloroethane (EDC)	<0.05	<0.20	48
	13. Dichloromethane	<0.05	<0.17	210
	14. 1,2-dichloropropane	<0.05	<0.23	82
	15. 1,4 Dioxane	<0.05	<0.18	860
	16. Tetrachloroethylene	<0.05	<0.34	400
	17. 1,1,2,2 -Tetrachloroethane	<0.05	<0.34	83
	18. Trichloroethylene	<0.05	<0.27	130
	19. Vinyl Chloride	<0.05	<0.13	20

Remarks : - Canister Tank No.23852 and Regulator No.1287.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001639-1 / 001-5 (Page 1 of 1) **Issued date** : June 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : June 10-11, 2024
SAMPLING LOCATION : Fence Line (North) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (North)	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.10400 and Regulator No.1581.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : June 10-11, 2024
SAMPLING LOCATION : Fence Line (South) **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Fence Line (South)	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.11592 and Regulator No.5806.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Report No. : 2024-500001639-1 / 001-7 (Page 1 of 1) **Issued date** : June 20, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : June 10-11, 2024
SAMPLING LOCATION : Ban Chak Klang **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Ban Chak Klang	Dichloromethane (Methylene Chloride)	0.12	0.42	210

Remarks : - Canister Tank No.24120 and Regulator No.19137.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : May 2-3, 2024
SAMPLING LOCATION : Wat Nong Faeb School **SAMPLING BY** : Rawin Sanglemngam

Sampling Location	Parameter	Value (24-hr)		Surveillant Value[1] (µg/m³)
		ppb	µg/m³	
Wat Nong Faeb School	Dichloromethane (Methylene Chloride)	<0.05	<0.17	210

Remarks : - Canister Tank No.23852 and Regulator No.1287.
- Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Source : [1] Notification of the Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
09:00-10:00	SW	4.0
10:00-11:00	SW	3.6
11:00-12:00	SW	3.6
12:00-13:00	SW	4.0
13:00-14:00	SW	4.5
14:00-15:00	SW	4.0
15:00-16:00	SW	3.6
16:00-17:00	SW	3.6
17:00-18:00	SW	3.6
18:00-19:00	SW	3.1
19:00-20:00	SW	3.1
20:00-21:00	SW	3.6
21:00-22:00	SW	3.6
22:00-23:00	SW	4.0
23:00-00:00	SW	3.1
00:00-01:00	SW	4.0
01:00-02:00	SW	3.1
02:00-03:00	SW	3.1
03:00-04:00	SW	2.2
04:00-05:00	SW	3.6
05:00-06:00	SW	3.1
06:00-07:00	SW	2.7
07:00-08:00	SW	2.7
08:00-09:00	SW	3.1

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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CLIENT : THAI POLYCARBONATE CO., LTD.
CONTACT : Khun Sommai Sriprom
ADDRESS : Padaeng Industrial Estate, 1 Padaeng Rd., Map Ta Phut, Rayong 21150
Tel. 038-684-816 Fax. 038-684-821
E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	12.50	83.33	4.17
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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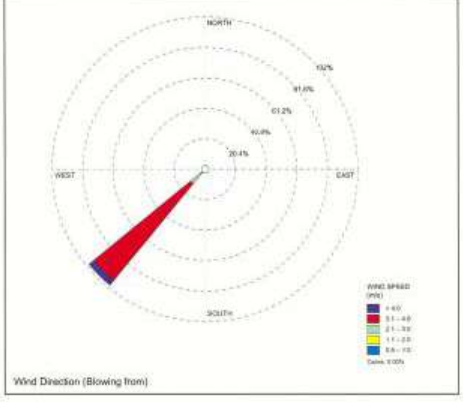
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Fence Line (North Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (North Wind)
Measurement Date : June 10-11, 2024



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	SE	1.8
11:00-12:00	ESE	1.8
12:00-13:00	SE	1.3
13:00-14:00	W	1.8
14:00-15:00	SE	1.3
15:00-16:00	SSE	2.2
16:00-17:00	SE	2.2
17:00-18:00	SSE	3.1
18:00-19:00	SE	1.8
19:00-20:00	SE	1.3
20:00-21:00	SE	0.9
21:00-22:00	WNW	1.8
22:00-23:00	W	2.7
23:00-00:00	W	2.7
00:00-01:00	W	1.3
01:00-02:00	SE	0.9
02:00-03:00	SE	1.3
03:00-04:00	SSE	3.1
04:00-05:00	SSE	2.7
05:00-06:00	SSE	2.2
06:00-07:00	SSE	1.8
07:00-08:00	SSE	2.7
08:00-09:00	W	1.8
09:00-10:00	W	2.2

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	4.17	-	-	-
SE	8.33	25.00	4.17	-	-
SSE	-	4.17	16.67	8.33	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	12.50	12.50	-	-
WNW	-	4.17	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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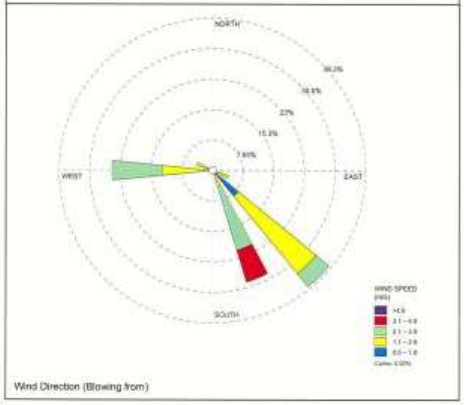
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Analysis Report

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MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Fence Line (Down Wind)
MEASURED BY : Rawin Sanglemngam

WIND ROSE PLOT
Measurement Location : Fence Line (Down Wind)
Measurement Date : June 10-11, 2024



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Time	Wind Direction	Wind Speed (m/s)
12:00-13:00	SW	2.2
13:00-14:00	WSW	1.8
14:00-15:00	SW	2.2
15:00-16:00	SW	2.2
16:00-17:00	SSW	2.2
17:00-18:00	SSW	1.8
18:00-19:00	SSW	1.3
19:00-20:00	SSW	1.3
20:00-21:00	SSW	1.3
21:00-22:00	SW	0.9
22:00-23:00	SW	0.9
23:00-00:00	WSW	0.9
00:00-01:00	SSW	0.9
01:00-02:00	SSW	0.9
02:00-03:00	SSW	1.3
03:00-04:00	SSW	2.2
04:00-05:00	SW	1.3
05:00-06:00	SSW	1.3
06:00-07:00	SSW	1.8
07:00-08:00	SSW	1.8
08:00-09:00	SSW	1.3
09:00-10:00	SW	1.8
10:00-11:00	SSW	2.2
11:00-12:00	SSW	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sanglemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	8.33	41.67	12.50	-	-
SW	8.33	8.33	12.50	-	-
WSW	4.17	4.17	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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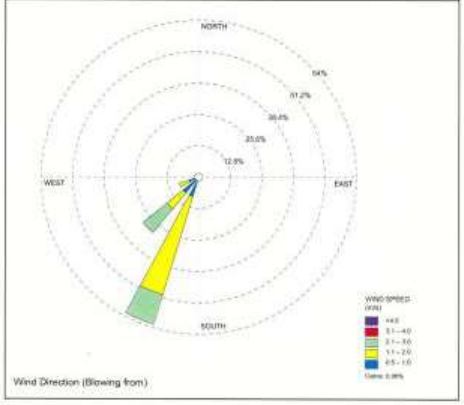
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Bang Chak Klang
MEASURED BY : Rawin Sangiemngam

WIND ROSE PLOT
Measurement Location : Ban Chak Klang
Measurement Date : June 10-11, 2024



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (Wind Direction & Wind Speed)
MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Time	Wind Direction	Wind Speed (m/s)
10:00-11:00	W	2.7
11:00-12:00	W	2.7
12:00-13:00	W	2.7
13:00-14:00	W	2.7
14:00-15:00	W	2.7
15:00-16:00	WSW	2.7
16:00-17:00	W	2.7
17:00-18:00	WSW	2.7
18:00-19:00	WSW	1.8
19:00-20:00	W	2.2
20:00-21:00	W	1.8
21:00-22:00	W	1.8
22:00-23:00	WSW	1.8
23:00-00:00	W	2.7
00:00-01:00	W	2.2
01:00-02:00	W	1.8
02:00-03:00	W	1.8
03:00-04:00	SW	2.7
04:00-05:00	WSW	2.2
05:00-06:00	W	2.2
06:00-07:00	WSW	1.8
07:00-08:00	WSW	2.2
08:00-09:00	W	1.8
09:00-10:00	W	1.8

Measurement Method : - Wind speed and Wind direction recording meter/ ISO

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Analysis Report

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MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	4.17	-	-
WSW	-	12.50	16.67	-	-
W	-	25.00	41.67	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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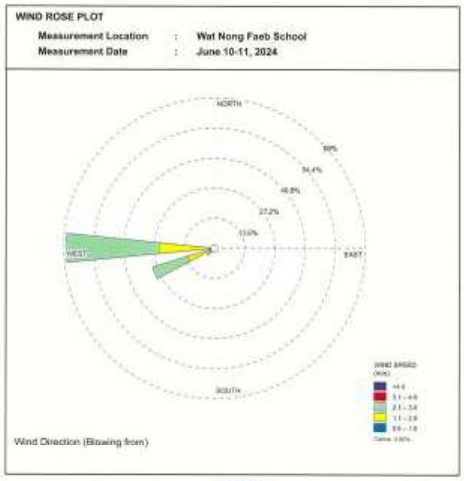
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Analysis Report

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MEASUREMENT DATE : June 10-11, 2024
MEASUREMENT LOCATION : Wat Nong Feab School
MEASURED BY : Rawin Sangiemngam

WIND ROSE PLOT
Measurement Location : Wat Nong Faeb School
Measurement Date : June 10-11, 2024



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ภาคผนวก ก2

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Report No. : **2024-500000948-1 / 004-1 (Page 1 of 1)** **Issued date** : March 29, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : MC Adsorber V-487, TPCC 1 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 12, 2024
SAMPLING TIME : 11:05-11:35 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	17	-	-
Stack Temperature		°C	90.1	-	-
Air Velocity		m/s	1.98	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	128	-	
O_2		%	17.62	-	U.S.EPA Method 3
CO_2		%	1.87	-	
Methylene Chloride	at actual O_2	mg/m^3	0.026	>556	U.S.EPA Method 18
	Emission Rate	g/sec	0.0002	>0.097	Calculation

Remark: - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
Source: [1/] The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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Report No. : **2024-500000948-1 / 004-2 (Page 1 of 1)** **Issued date** : March 29, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Tel. 038-684-816 Fax. 038-687-776
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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : HE Adsorber 2V-681, TPCC 1 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 12, 2024
SAMPLING TIME : 11:10-12:10 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	64	-	-
Stack Temperature		°C	55.3	-	-
Air Velocity		m/s	17.02	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	17,012	-	
O_2		%	20.78	-	U.S.EPA Method 3
CO_2		%	0.00	-	
Heptane	at actual O_2	mg/m^3	N.D.	>350.5	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>2.127	Calculation
Methylene Chloride	at actual O_2	mg/m^3	N.D.	>229.9	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>1.395	Calculation

Remarks : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected, Detection Limit of Heptane <0.88 mg/m^3 and emission rate <0.004 g/s
Detection Limit of Methylene Chloride <0.18 mg/m^3 and emission rate <0.001 g/s
Source : [1/] The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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Report No. : **2024-500000948-1 / 004-3 (Page 1 of 1)** **Issued date** : March 29, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : MC Adsorber 3V-487, TPCC 2 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 11, 2024
SAMPLING TIME : 11:50-12:20 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	26	-	-
Stack Temperature		°C	74.4	-	-
Air Velocity		m/s	2.55	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	401	-	
O_2		%	16.24	-	U.S.EPA Method 3
CO_2		%	2.63	-	
Methylene Chloride	at actual O_2	mg/m^3	0.021	>1,029	U.S.EPA Method 18
	Emission Rate	g/sec	0.0004	>0.110	Calculation

Remarks : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
Source : 1/ The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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Report No. : **2024-500000948-1 / 004-4 (Page 1 of 1)** **Issued date** : March 29, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : HE Adsorber 3V-681, TPCC 2 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 11, 2024
SAMPLING TIME : 10:25-11:25 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	100	-	-
Stack Temperature		°C	51.3	-	-
Air Velocity		m/s	18.68	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	44,682	-	
O_2		%	17.62	-	U.S.EPA Method 3
CO_2		%	1.87	-	
Heptane	at actual O_2	mg/m^3	N.D.	>225	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>4.750	Calculation
Methylene Chloride	at actual O_2	mg/m^3	0.022	>126.1	U.S.EPA Method 18
	Emission Rate	g/sec	0.048	>2.349	Calculation

Remark : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected, Detection Limit of Heptane <0.88 mg/m^3 and emission rate <0.011 g/s
Source : 1/ The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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Report No. : **2024-500000948-1 / 004-5 (Page 1 of 1)** **Issued date** : March 29, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : HE Adsorber V-681, TPCC 1 Plant
SAMPLING BY : Natthaphon Taprap
SAMPLING DATE : March 12, 2024
SAMPLING TIME : 10:00-11:00 hrs.

Parameter		Unit	Value	EIA Criteria[1/]	Analytical Method
Stack Diameter		cm.	64	-	-
Stack Temperature		°C	55.3	-	-
Air Velocity		m/s	17.03	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	16,598	-	
O_2		%	20.78	-	U.S.EPA Method 3
CO_2		%	0.00	-	
Heptane	at actual O_2	mg/m^3	N.D.	>368.7	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>2.237	Calculation
Methylene Chloride	at actual O_2	mg/m^3	N.D.	>241.6	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	>1.466	Calculation

Remarks : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected, Detection Limit of Heptane <0.88 mg/m^3 and emission rate <0.004 g/s
Detection Limit of Methylene Chloride <0.18 mg/m^3 and emission rate <0.001 g/s

Source : [1/] The emission air criteria according to EIA study of TPCC Expansion Project as approval letter Tor Sor 1009.9/6206 dated June 28, B.E 2555 (2012).

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ภาคผนวก ก3

ผลการตรวจวัดระดับเสียงดังโดยทั่วไป

Report No. : **2024-500000948-1 / 006-1 (Page 1 of 1)** **Issued date** : March 14, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Noise Level **MEASUREMENT DATE** : March 4-5, 2024
MEASUREMENT LOCATION : North Fence of Project TPCC **MEASURED BY** : Rawin Sanglemngam
CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : Model ST-21D, Serial No.820714

Time	Noise Level [dB(A)]		Standard[1/]
	Leq	L90	
11:00-12:00	64.6	58.4	
12:00-13:00	61.3	57.2	
13:00-14:00	63.8	58.6	
14:00-15:00	62.1	58.1	
15:00-16:00	62.2	57.4	
16:00-17:00	62.7	58.6	
17:00-18:00	63.7	60.3	
18:00-19:00	63.2	59.2	
19:00-20:00	62.6	56.4	
20:00-21:00	59.7	53.8	
21:00-22:00	57.4	52.9	
22:00-23:00	57.8	50.3	
23:00-00:00	57.4	51.3	
00:00-01:00	56.4	49.8	
01:00-02:00	53.0	49.7	
02:00-03:00	53.2	49.3	
03:00-04:00	52.4	49.1	
04:00-05:00	53.8	49.9	
05:00-06:00	55.7	52.3	
06:00-07:00	63.2	57.5	
07:00-08:00	65.3	62.2	
08:00-09:00	63.4	59.3	
09:00-10:00	62.4	58.0	
10:00-11:00	61.6	58.3	
Leq 24 hr	**61.4**	-	**>70**
Ldn	**65.1**	-	-
L90 (min-max)	-	**49.1-62.2**	-

Source : [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997).

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Report No. : **2024-500001639-1 / 007-1 (Page 1 of 1)** **Issued date** : July 9, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Noise Level **MEASUREMENT DATE** : June 14, 2024
MEASUREMENT LOCATION : North Fence of Project TPCC **MEASURED BY** : Rawin Sanglemngam
CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.8 dB(A)
SOUND LEVEL METER NO. : Model ST-21D, Serial No. 820716

Time	Noise Level [dB(A)]		Standard[1/]
	Leq	L90	
10:00-11:00	65.2	61.3	
11:00-12:00	66.0	61.0	
12:00-13:00	62.2	59.1	
13:00-14:00	64.8	61.0	
14:00-15:00	66.0	61.3	
15:00-16:00	64.4	61.2	
16:00-17:00	64.8	60.8	
17:00-18:00	65.7	61.1	
18:00-19:00	65.5	61.0	
19:00-20:00	63.7	57.7	
20:00-21:00	62.0	55.6	
21:00-22:00	59.5	54.4	
22:00-23:00	58.9	52.4	
23:00-00:00	59.0	52.1	
00:00-01:00	56.9	51.9	
01:00-02:00	56.6	53.2	
02:00-03:00	56.1	53.6	
03:00-04:00	55.9	53.5	
04:00-05:00	56.3	52.8	
05:00-06:00	58.8	53.1	
06:00-07:00	65.5	59.7	
07:00-08:00	69.2	64.5	
08:00-09:00	65.8	62.1	
09:00-10:00	69.3	60.7	
Leq 24 hr	**64.2**	-	**≯70**
Ldn	**66.7**	-	-
L90 (min-max)	-	**51.9-64.5**	-

Source : [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997).

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ภาคผนวก ก4

ผลการตรวจวัดคุณภาพอากาศในสถานประกอบการ

Report No. : **2024-500000948-1 / 007-1 (Page 1 of 1)** **Issued date :** March 18, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Workplace Air Quality
SAMPLING LOCATION : TPCC 1 Plant, Rayong Province
SAMPLING DATE : March 4, 2024
SAMPLING BY : Rawin Sanglemngam

Station	Parameter	Unit	Value	Standard[1/] (TLV-TWA)	Analytical Method
Pelletizing Area	Total Dust	mg/m^3	0.0722	-	NIOSH 0500
Bagging Area	Total Dust	mg/m^3	0.4871	-	NIOSH 0500
CG Production Process	Carbon Monoxide	ppm	0.680	50	OSHA ID 210
	Chlorine	ppm	0.021	1	NIOSH 6011
Polymerization	Methylene Chloride	ppm	N.D.(0.118)	25	NIOSH 1005
	Heptane	ppm	N.D.(0.502)	500	NIOSH 1500
G-Structure	Methylene Chloride	ppm	0.233	25	NIOSH 1005
	Heptane	ppm	N.D.(0.502)	500	NIOSH 1500
P-Structure	Methylene Chloride	ppm	0.344	25	NIOSH 1005
Wastewater Treatment Plant Unit	Methylene Chloride	ppm	N.D.(0.118)	25	NIOSH 1005

Remarks : - TLV-TWA = Threshold Limit Value - Time Weighted Average.
- N.D. = Not detected.

Source : 1/ Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017).

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Report No. : **2024-500000948-1 / 007-2 (Page 1 of 1)** **Issued date** : March 18, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Workplace Air Quality
SAMPLING LOCATION : TPCC 2 Plant, Rayong Province
SAMPLING DATE : March 4, 2024
SAMPLING BY : Rawin Sanglemngm

Station	Parameter	Unit	Value	Standard[1/] (TLV-TWA)	Analytical Method
Pelletizing Area	Total Dust	mg/m^3	0.0754	-	NIOSH 0500
Bagging Area	Total Dust	mg/m^3	0.0751	-	NIOSH 0500
CG Production Process	Carbon Monoxide	ppm	0.832	50	OSHA ID 210
	Chlorine	ppm	0.016	1	NIOSH 6011
Polymerization	Methylene Chloride	ppm	2.051	25	NIOSH 1005
	Heptane	ppm	N.D.(0.486)	500	NIOSH 1500
G-Structure	Methylene Chloride	ppm	N.D.(0.116)	25	NIOSH 1005
	Heptane	ppm	N.D.(0.486)	500	NIOSH 1500
P-Structure	Methylene Chloride	ppm	0.916	25	NIOSH 1005
Wastewater Treatment Plant Unit	Methylene Chloride	ppm	N.D.(0.116)	25	NIOSH 1005

Remarks : - TLV-TWA = Threshold Limit Value - Time Weighted Average.
- N.D. = Not detected.

Source : 1/ Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017).

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Report No. : **2024-500001639-1 / 004-1 (Page 1 of 1)** **Issued date** : June 27, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Workplace Air Quality
SAMPLING LOCATION : TPCC 1 Plant, Rayong Province
SAMPLING DATE : June 14, 2024
SAMPLING BY : Rawin Sanglemngam

Station	Parameter	Unit	Value	Standard[1/] (TLV-TWA)	Analytical Method
Pelletizing Area	Total Dust	mg/m^3	0.1403	-	NIOSH 0500
Bagging Area	Total Dust	mg/m^3	0.0698	-	NIOSH 0500
CG Production Process	Carbon Monoxide	ppm	1.329	50	OSHA ID 210
	Chlorine	ppm	0.002	1	NIOSH 6011
Polymerization	Methylene Chloride	ppm	N.D. (0.105)	25	NIOSH 1005
	Heptane	ppm	N.D. (0.443)	500	NIOSH 1500
G-Structure	Methylene Chloride	ppm	N.D. (0.105)	25	NIOSH 1005
	Heptane	ppm	N.D. (0.443)	500	NIOSH 1500
P-Structure	Methylene Chloride	ppm	N.D. (0.105)	25	NIOSH 1005
Wastewater Treatment Plant Unit	Methylene Chloride	ppm	N.D. (0.105)	25	NIOSH 1005

Remarks : - TLV-TWA = Threshold Limit Value - Time Weighted Average.
- N.D. = Not detected.

Source : 1/ Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017).

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Report No. : **2024-500001639-1 / 004-2 (Page 1 of 1)** **Issued date** : June 27, 2024

CLIENT : **THAI POLYCARBONATE CO., LTD.**
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Analysis Report

SAMPLE DESIGNATED AS : Workplace Air Quality
SAMPLING LOCATION : TPCC 2 Plant, Rayong Province
SAMPLING DATE : June 14, 2024
SAMPLING BY : Rawin Sanglemngam

Station	Parameter	Unit	Value	Standard[1/] (TLV-TWA)	Analytical Method
Pelletizing Area	Total Dust	mg/m^3	0.1505	-	NIOSH 0500
Bagging Area	Total Dust	mg/m^3	0.7057	-	NIOSH 0500
CG Production Process	Carbon Monoxide	ppm	1.374	50	OSHA ID 210
	Chlorine	ppm	0.005	1	NIOSH 6011
Polymerization	Methylene Chloride	ppm	N.D. (0.109)	25	NIOSH 1005
	Heptane	ppm	N.D. (0.431)	500	NIOSH 1500
G-Structure	Methylene Chloride	ppm	N.D. (0.109)	25	NIOSH 1005
	Heptane	ppm	N.D. (0.431)	500	NIOSH 1500
P-Structure	Methylene Chloride	ppm	N.D. (0.109)	25	NIOSH 1005
Wastewater Treatment Plant Unit	Methylene Chloride	ppm	N.D. (0.109)	25	NIOSH 1005

Remarks : - TLV-TWA = Threshold Limit Value - Time Weighted Average.
- N.D. = Not detected.

Source : 1/ Notification of the Department of Labor Protection and Welfare, Subject Limitation of Hazardous Chemical Concentration, Vol.134, Special Part 198 D, dated August 3, B.E. 2560 (2017).

[redacted]

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ภาคผนวก ก5

ผลการตรวจวัดระดับเสียงในสถานประกอบการ

Report No. : 2024-500000948-1 / 008-1 (Page 1 of 4) **Issued date** : March 14, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
CONTACT : Khun Sommai Sriprom
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Tel. 038-684-816 Fax. 038-684-821
E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.8 dB(A)
SOUND LEVEL METER NO. : Inspection (PT1) Model ST-21D, Serial No. 820714

Station	Sound Level [dB(A)]
	Inspection Room (PT1)
Sampling Time	**10:00-22:00 hr.**
1st hr	63.4
2nd hr	62.1
3rd hr	61.0
4th hr	62.4
5th hr	63.8
6th hr	63.1
7th hr	61.2
8th hr	62.4
9th hr	60.3
10th hr	60.0
11th hr	59.8
12th hr	61.4
Leq 12 hrs.	**61.9**
Standard[1]	**>87**

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

[redacted]

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Report No. : 2024-500000948-1 / 008-1 (Page 2 of 4) **Issued date** : March 14, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : Analysis Room (VP1) Model ST-21D, Serial No. 820716

Station	Sound Level [dB(A)]
	Analysis Room (VP1)
Sampling Time	**10:00-22:00 hr.**
1st hr	65.8
2nd hr	64.6
3rd hr	64.3
4th hr	64.5
5th hr	63.9
6th hr	63.5
7th hr	63.8
8th hr	64.1
9th hr	65.1
10th hr	64.0
11th hr	64.5
12th hr	64.0
Leq 12 hrs.	**64.4**
Standard[1]	**>87**

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.9 dB(A)
SOUND LEVEL METER NO. : CCR (VP1) Model ST-21D, Serial No 820703

Station	Sound Level [dB(A)]
	CCR (VP1)
Sampling Time	**10:00-22:00 hr.**
1st hr	64.3
2nd hr	61.1
3rd hr	60.5
4th hr	61.8
5th hr	62.2
6th hr	63.7
7th hr	62.0
8th hr	62.4
9th hr	62.5
10th hr	62.6
11th hr	61.4
12th hr	63.4
Leq 12 hrs.	**62.5**
Standard[1]	**>87**

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Report No. : 2024-500000948-1 / 008-1 (Page 4 of 4) **Issued date** : March 14, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : March 4, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.8 dB(A)
SOUND LEVEL METER NO. : CCR (PT1) Model ST-21D, Serial No 820712

Station	Sound Level [dB(A)]
	CCR (PT1)
Sampling Time	**10:00-22:00 hr.**
1st hr	68.5
2nd hr	70.4
3rd hr	65.5
4th hr	66.0
5th hr	67.2
6th hr	66.1
7th hr	66.6
8th hr	68.1
9th hr	68.7
10th hr	67.4
11th hr	64.8
12th hr	64.8
Leq 12 hrs.	**67.3**
Standard[1]	**>87**

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Report No. : 2024-500000948-1 / 005-2 (Page 1 of 2) Issued date : March 14, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : March 4, 2024
MEASUREMENT LOCATION : TPCC 2 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : CCR (VP2) Model ST-21D Serial No. 820710

Station	Sound Level [dB(A)]
	CCR (VP2)
Sampling Time	10:00-22:00 hr.
1st hr	67.4
2nd hr	64.4
3rd hr	63.2
4th hr	64.1
5th hr	64.9
6th hr	66.1
7th hr	65.4
8th hr	64.7
9th hr	63.3
10th hr	65.8
11th hr	65.3
12th hr	64.7
Leq 12 hrs.	65.1
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2548 (2003).

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Report No. : 2024-500000948-1 / 005-2 (Page 2 of 2) Issued date : March 14, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : March 4, 2024
MEASUREMENT LOCATION : TPCC 2 Plant, Rayong Province

CALIBRATOR DATA : Model ST-120, Tenmars, Serial : 211203780, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.6 dB(A)
SOUND LEVEL METER NO. : CCR (PT2) Model ST-21D Serial No. 820711

Station	Sound Level [dB(A)]
	CCR (PT2)
Sampling Time	10:00-22:00 hr.
1st hr	64.8
2nd hr	63.3
3rd hr	63.0
4th hr	66.4
5th hr	64.7
6th hr	62.0
7th hr	64.5
8th hr	64.7
9th hr	65.7
10th hr	65.0
11th hr	64.2
12th hr	59.9
Leq 12 hrs.	64.3
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2548 (2003).

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Report No. : 2024-500001639-1 / 006-1 (Page 1 of 4) Issued date : July 9, 2024

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : June 14, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 94.0 dB(A), Post Cal : 93.9 dB(A)
SOUND LEVEL METER NO. : Inspection (PT1) Model NL-21, Serial No. 487718

Station	Sound Level [dB(A)]
	Inspection Room (PT1)
Sampling Time	10:00-22:00 hr.
1st hr	69.2
2nd hr	62.2
3rd hr	60.4
4th hr	61.0
5th hr	62.0
6th hr	63.7
7th hr	60.4
8th hr	61.0
9th hr	61.1
10th hr	60.8
11th hr	60.9
12th hr	60.7
Leq 12 hrs.	62.9
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2548 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level MEASUREMENT DATE : June 14, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province

CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 94.0 dB(A), Post Cal : 93.9 dB(A)
SOUND LEVEL METER NO. : Analysis Room (VP1) Model ST-21D, Serial No. 820708

Station	Sound Level [dB(A)]
	Analysis Room (VP1)
Sampling Time	10:00-22:00 hr.
1st hr	62.6
2nd hr	64.7
3rd hr	57.6
4th hr	59.1
5th hr	62.3
6th hr	59.7
7th hr	61.7
8th hr	62.2
9th hr	59.3
10th hr	60.0
11th hr	60.4
12th hr	59.8
Leq 12 hrs.	61.2
Standard[1]	>87

Source : [1] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2548 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : June 14, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province
CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 94.0 dB(A), Post Cal : 94.0 dB(A)
SOUND LEVEL METER NO. : CCR (VP1) Model NL-21, Serial No 396395

Station	Sound Level [dB(A)]
	CCR (VP1)
Sampling Time	10:00-22:00 hr.
1st hr	65.2
2nd hr	64.1
3rd hr	62.7
4th hr	62.5
5th hr	65.3
6th hr	63.4
7th hr	62.5
8th hr	61.8
9th hr	63.2
10th hr	63.8
11th hr	62.9
12th hr	64.3
Leq 12 hrs.	63.6
Standard[IV]	>87

Source : [IV] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : June 14, 2024
MEASUREMENT LOCATION : TPCC 1 Plant, Rayong Province
CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 94.0 dB(A), Post Cal : 94.0 dB(A)
SOUND LEVEL METER NO. : CCR (PT1) Model NL-21, Serial No 965939

Station	Sound Level [dB(A)]
	CCR (PT1)
Sampling Time	10:00-22:00 hr.
1st hr	70.2
2nd hr	70.0
3rd hr	67.1
4th hr	68.0
5th hr	71.6
6th hr	66.5
7th hr	66.7
8th hr	65.9
9th hr	68.2
10th hr	65.8
11th hr	67.3
12th hr	63.5
Leq 12 hrs.	68.1
Standard[IV]	>87

Source : [IV] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : June 14, 2024
MEASUREMENT LOCATION : TPCC 2 Plant, Rayong Province
CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : CCR (VP2) Model CR:161B Serial No. G080136

Station	Sound Level [dB(A)]
	CCR (VP2)
Sampling Time	10:00-22:00 hr.
1st hr	64.5
2nd hr	65.3
3rd hr	62.1
4th hr	65.8
5th hr	67.9
6th hr	67.4
7th hr	62.9
8th hr	62.8
9th hr	63.1
10th hr	64.1
11th hr	62.4
12th hr	63.5
Leq 12 hrs.	64.7
Standard[IV]	>87

Source : [IV] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

[redacted]

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Report No. : 2024-500001639-1 / 006-2 (Page 2 of 2) **Issued date** : July 9, 2024

CLIENT : THAI POLYCARBONATE CO., LTD.
CONTACT : Khun Sommai Sriprom
ADDRESS : Padaeng Industrial Estate, 1/1 Padaeng Rd., Map Ta Phut, Rayong 21150
Tel. 038-684-816 Fax. 038-684-821
E-mail : Sommai.Srip@th.tpcc-tpac.com

Analysis Report

SAMPLE DESIGNATED AS : Workplace Noise Level **MEASUREMENT DATE** : June 14, 2024
MEASUREMENT LOCATION : TPCC 2 Plant, Rayong Province
CALIBRATOR DATA : Model CR:515, Cirrus, Serial : 88373, Calibration Value Reference : 94.0 dB(A), Pre Cal : 93.8 dB(A), Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : CCR (PT2) Model ST-21D Serial No. 820711

Station	Sound Level [dB(A)]
	CCR (PT2)
Sampling Time	11:00-23:00 hr.
1st hr	64.2
2nd hr	65.3
3rd hr	63.6
4th hr	65.4
5th hr	63.9
6th hr	63.7
7th hr	62.4
8th hr	62.6
9th hr	62.1
10th hr	62.0
11th hr	62.7
12th hr	60.4
Leq 12 hrs.	63.4
Standard[IV]	>87

Source : [IV] Notification of the Ministry of Industry, Subjected "Safety Protection Measure for Industry about Working Condition", B.E. 2546 (2003) dated December 3, B.E. 2546 (2003).

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