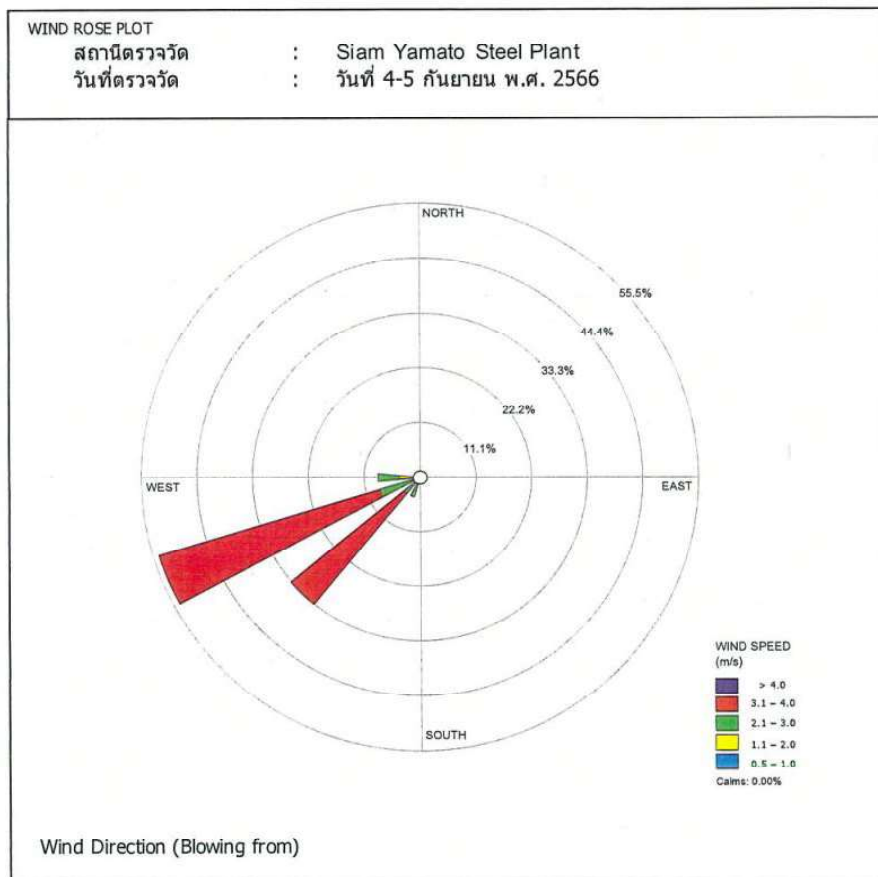


Report No. : 2023-5007772 / 002-7 (Page 3 of 3) Issued date : September 15, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 4-5, 2023
MEASURED BY :



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Report No. : 2023-5008033 / 002-1 (Page 1 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs				
1. Propene	2.54	4.37	-	-
2. Dichlorodifluoromethane (F-12)	0.44	2.18	-	-
3. Chlorodifluoromethane (F-22)	0.28	0.99	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.80	1.64	-	-
6. Isobutene	2.88	6.60	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	1.68	3.72	5.3	-
9. Acetaldehyde	4.32	7.79	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	1.76	5.19	-	-
15. Ethanol	2.55	4.80	-	-
16. Isoprene	0.24	0.67	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.46	5.84	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.48	1.67	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2023-5008033 / 002-1 (Page 2 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : October 2-3, 2023

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.82	2.89	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.96	3.30	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.54	1.73	7.6	-
43. 1,2-dichloroethane (EDC)	0.20	0.81	48	-
44. Trichloroethylene	0.05	0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.16	4.37	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-1 (Page 3 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.22	0.96	-	-
64. p,m-Xylene	0.44	1.91	-	-
65. o-Xylene	0.12	0.52	-	-
66. Styrene	0.88	3.75	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-1 (Page 4 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : October 2-3, 2023

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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. : 2023-5008033 / 002-2 (Page 1 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.31	3.98	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.28	0.99	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.80	1.64	-	-
6. Isobutene	6.93	15.87	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	4.30	9.51	5.3	-
9. Acetaldehyde	4.86	8.77	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.40	1.55	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.40	1.18	-	-
15. Ethanol	1.50	2.83	-	-
16. Isoprene	0.24	0.67	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.35	5.58	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.40	1.39	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-2 (Page 2 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.60	2.11	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.32	1.10	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.64	2.04	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	0.56	2.02	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.39	5.24	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: - Notification of 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. : 2023-5008033 / 002-2 (Page 3 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	3.82	16.59	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.31	9.84	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-2 (Page 4 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : October 2-3, 2023

SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2023-5008033 / 002-3 (Page 1 of 4)

Issued date : October 24, 2023

CLIENT : INFOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.08	3.58	-	-
2. Dichlorodifluoromethane (F-12)	0.44	2.18	-	-
3. Chlorodifluoromethane (F-22)	0.36	1.27	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.76	1.55	-	-
6. Isobutene	1.56	3.57	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	2.12	4.69	5.3	-
9. Acetaldehyde	1.84	3.32	860	-
10. Methanol	<0.1	<0.13	-	-
11. Bromomethane	0.16	0.62	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.44	1.30	-	-
15. Ethanol	1.60	3.01	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.68	6.37	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.36	1.25	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-3 (Page 2 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
29. Hexane	0.48	1.69	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.32	1.10	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.36	1.15	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.20	4.52	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-3 (Page 3 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** October 2-3, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.12	0.55	-	-
63. Ethylbenzene	0.64	2.78	-	-
64. p,m-Xylene	1.12	4.86	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	3.40	14.48	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	0.80	1.74	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-5008033 / 002-3 (Page 4 of 4)

Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : October 2-3, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppm)	(mg/m ³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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. : 2023-5008033 / 002-5 (Page 1 of 3) Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 2-3, 2023
MEASURED BY :

Location	TIME	October 2-3, 2023	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	ESE	1.3
	11:00-12:00	SE	0.9
	12:00-13:00	WNW	1.8
	13:00-14:00	WNW	2.7
	14:00-15:00	W	2.7
	15:00-16:00	W	2.7
	16:00-17:00	WNW	1.8
	17:00-18:00	-	CALM
	18:00-19:00	-	CALM
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	SSW	0.9
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	SSE	0.9
	01:00-02:00	W	2.2
	02:00-03:00	W	1.8
	03:00-04:00	ENE	0.9
	04:00-05:00	E	1.3
	05:00-06:00	ENE	0.9
	06:00-07:00	-	CALM
	07:00-08:00	-	CALM
	08:00-09:00	WNW	0.9
	09:00-10:00	W	1.8

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-5008033 / 002-5 (Page 2 of 3) Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE: October 2-3, 2023
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

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	8.33	-	-	-	-
E	-	4.17	-	-	-
ESE	-	4.17	-	-	-
SE	4.17	-	-	-	-
SSE	4.17	-	-	-	-
S	-	-	-	-	-
SSW	4.17	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	8.33	12.50	-	-
WNW	4.17	8.33	4.17	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	33.33				

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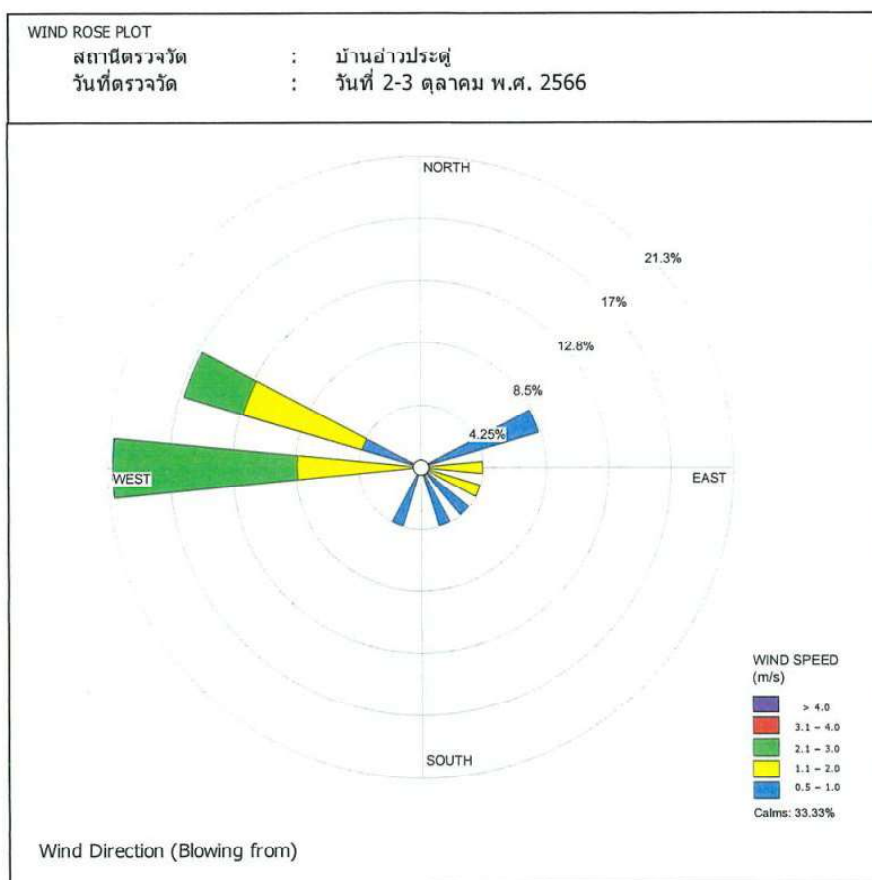
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Report No. : 2023-5008033 / 002-5 (Page 3 of 3) Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE: October 2-3, 2023
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited



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Report No. : 2023-5008033 / 002-6 (Page 1 of 3) Issued date : October 24, 2023

CLIENT : INFOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 2-3, 2023
MEASURED BY :

Location	TIME	October 2-3, 2023	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	NE	1.3
	10:00-11:00	NE	2.7
	11:00-12:00	NE	1.3
	12:00-13:00	W	1.8
	13:00-14:00	W	1.8
	14:00-15:00	WSW	2.2
	15:00-16:00	W	1.8
	16:00-17:00	W	1.8
	17:00-18:00	W	1.3
	18:00-19:00	WNW	0.9
	19:00-20:00	SSW	0.9
	20:00-21:00	SSW	1.3
	21:00-22:00	SW	2.2
	22:00-23:00	SW	1.8
	23:00-00:00	SW	1.8
	00:00-01:00	SW	1.3
	01:00-02:00	SW	1.3
	02:00-03:00	SW	2.2
	03:00-04:00	NE	1.3
	04:00-05:00	NE	1.8
	05:00-06:00	NE	1.3
	06:00-07:00	-	CALM
	07:00-08:00	N	0.9
	08:00-09:00	SW	2.7

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-5008033 / 002-6 (Page 2 of 3) Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 2-3, 2023
MEASURED BY :

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	4.17	-	-	-	-
NNE	-	-	-	-	-
NE	-	20.83	4.17	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	4.17	4.17	-	-	-
SW	-	16.67	12.50	-	-
WSW	-	-	4.17	-	-
W	-	20.83	-	-	-
WNW	4.17	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	4.17				

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Report No. : 2023-5008033 / 002-6 (Page 3 of 3) Issued date : October 24, 2023

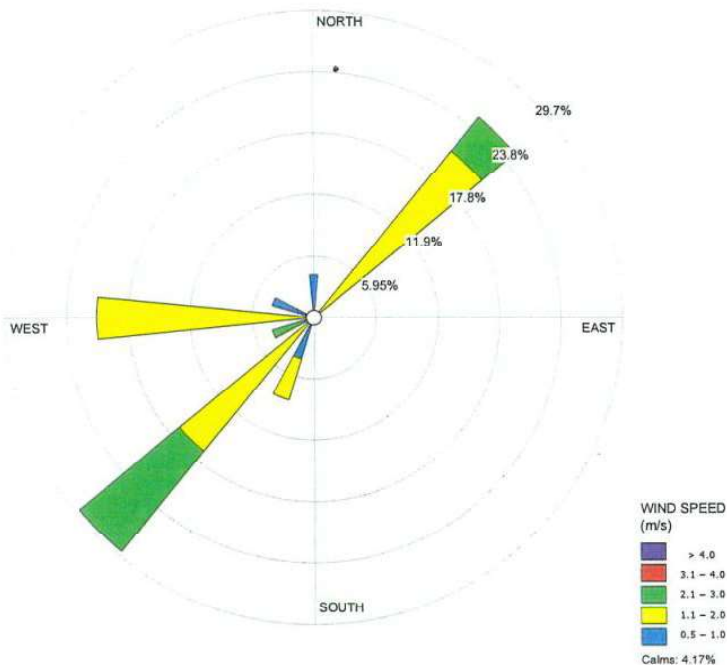
CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 2-3, 2023
MEASURED BY :

WIND ROSE PLOT

สถานที่ตรวจวัด : New CO Plant of BTC
วันที่ตรวจวัด : วันที่ 2-3 ตุลาคม พ.ศ. 2566



Wind Direction (Blowing from)

TY/JM/SV/SV

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Report No. : 2023-5008033 / 002-7 (Page 1 of 3) Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : October 2-3, 2023
MEASURED BY :

Location	TIME	October 2-3, 2023	
		WD	WS (m/s)
Siam Yamato Steel Plant	10:00-11:00	E	2.2
	11:00-12:00	E	1.3
	12:00-13:00	WSW	1.3
	13:00-14:00	WSW	1.8
	14:00-15:00	WSW	2.2
	15:00-16:00	WSW	1.3
	16:00-17:00	WSW	0.9
	17:00-18:00	-	CALM
	18:00-19:00	WSW	0.9
	19:00-20:00	WSW	1.8
	20:00-21:00	WSW	2.7
	21:00-22:00	SW	2.2
	22:00-23:00	WSW	2.7
	23:00-00:00	WSW	2.7
	00:00-01:00	WSW	3.1
	01:00-02:00	WSW	3.1
	02:00-03:00	WSW	1.3
	03:00-04:00	ENE	0.9
	04:00-05:00	NE	0.9
	05:00-06:00	NE	0.9
	06:00-07:00	-	CALM
	07:00-08:00	-	CALM
	08:00-09:00	WSW	0.9
	09:00-10:00	WSW	1.8

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-5008033 / 002-7 (Page 2 of 3) Issued date : October 24, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : October 2-3, 2023
MEASUREMENT LOCATION : Siam Yamato Steel Plant MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

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	-	-	-	-
ENE	4.17	-	-	-	-
E	-	4.17	4.17	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	4.17	-	-
WSW	12.50	25.00	16.67	8.33	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	12.50				

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Report No. : 2023-5008033 / 002-7 (Page 3 of 3) Issued date : October 24, 2023

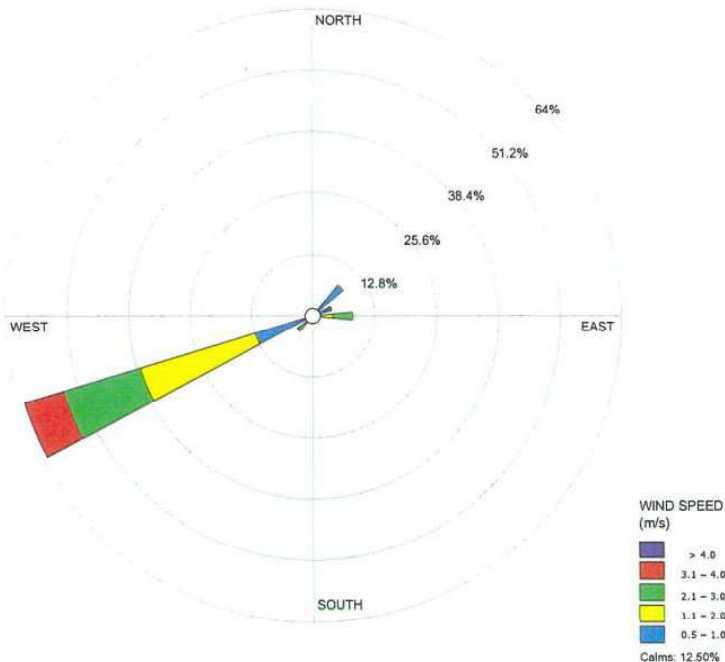
CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : October 2-3, 2023
MEASURED BY :

WIND ROSE PLOT

สถานีตรวจวัด : Siam Yamato Steel Plant
วันที่ตรวจวัด : วันที่ 2-3 ตุลาคม พ.ศ. 2566



Wind Direction (Blowing from)

TY/JM/SV/SV

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E 270172

Report No. : 2023-500000077 / 002-1 (Page 1 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : November 3-4, 2023

SAMPLING LOCATION : Ban Aow Pradoo

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.58	2.72	-	-
2. Dichlorodifluoromethane (F-12)	0.42	2.08	-	-
3. Chlorodifluoromethane (F-22)	0.38	1.34	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.96	1.96	-	-
6. Isobutene	0.80	1.83	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	5.70	10.28	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	2.78	8.20	-	-
15. Ethanol	5.15	9.70	-	-
16. Isoprene	1.72	4.78	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	9.48	22.52	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.11	0.18	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.72	2.50	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** November 3-4, 2023
SAMPLING LOCATION : Ban Aow Pradoo **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.20	4.23	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.00	2.94	-	-
38. Chloroform	0.40	1.95	57	-
39. Cyclohexane	0.34	1.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.76	2.43	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.28	4.82	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000077 / 002-1 (Page 3 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)
SAMPLING LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : November 3-4, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.16	0.69	-	-
64. p,m-Xylene	0.32	1.39	-	-
65. o-Xylene	0.08	0.35	-	-
66. Styrene	0.40	1.70	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2023-500000077 / 002-1 (Page 4 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : November 3-4, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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. : 2023-500000077 / 002-2 (Page 1 of 4)
Issued date : November 21, 2023
CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** November 3-4, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.63	2.81	-	-
2. Dichlorodifluoromethane (F-12)	0.48	2.38	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.00	2.04	-	-
6. Isobutene	1.27	2.91	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.96	2.12	5.3	-
9. Acetaldehyde	35.58	64.17	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.32	1.24	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.52	1.53	-	-
15. Ethanol	2.5	4.71	-	-
16. Isoprene	0.44	1.22	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.30	10.21	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.76	2.64	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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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CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** November 3-4, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.16	0.56	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.40	1.18	-	-
38. Chloroform	0.16	0.78	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.52	1.66	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	0.2	0.61	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	0.52	1.87	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.96	3.62	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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Report No. : 2023-500000077 / 002-2 (Page 3 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : November 3-4, 2023
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	0.20	0.82	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.12	0.55	-	-
63. Ethylbenzene	0.60	2.61	-	-
64. p,m-Xylene	1.83	7.95	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.95	12.57	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000077 / 002-2 (Page 4 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : November 3-4, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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. : 2023-500000077 / 002-3 (Page 1 of 4)****Issued date :** November 21, 2023**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)
SAMPLING LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited**SAMPLING DATE :** November 3-4, 2023
SAMPLING BY : [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	1.40	2.41	-	-
2. Dichlorodifluoromethane (F-12)	0.44	2.18	-	-
3. Chlorodifluoromethane (F-22)	0.52	1.84	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.92	1.88	-	-
6. Isobutene	0.80	1.83	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	10.04	18.11	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.24	1.35	-	-
14. Pentane	1.80	5.31	-	-
15. Ethanol	1.6	3.01	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	1.80	4.27	-	-
21. Acetone	13.72	32.59	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.72	2.50	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.**Sources:** * Notification of 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. : 2023-500000077 / 002-3 (Page 2 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** November 3-4, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	2.20	7.75	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	0.2	0.59	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.16	3.42	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.60	2.06	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	<0.05	<0.16	7.6	-
43. 1,2-dichloroethane (EDC)	0.84	3.40	48	-
44. Trichloroethylene	0.28	1.50	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	0.08	0.33	-	-
54. Toluene	1.24	4.67	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000077 / 002-3 (Page 3 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** November 3-4, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	0.24	0.98	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.28	1.22	-	-
64. p,m-Xylene	0.64	2.78	-	-
65. o-Xylene	0.08	0.35	-	-
66. Styrene	0.08	0.34	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	0.16	0.79	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	0.76	1.65	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000077 / 002-3 (Page 4 of 4)

Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : November 3-4, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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. : 2023-500000077 / 002-5 (Page 1 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : November 3-4, 2023
MEASURED BY : [REDACTED]

Location	TIME	November 3-4, 2023	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	ENE	2.2
	11:00-12:00	ENE	2.2
	12:00-13:00	SE	2.7
	13:00-14:00	SE	2.2
	14:00-15:00	SW	1.3
	15:00-16:00	W	1.3
	16:00-17:00	W	2.2
	17:00-18:00	W	2.7
	18:00-19:00	W	2.7
	19:00-20:00	W	2.2
	20:00-21:00	W	0.9
	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	-	CALM
	09:00-10:00	SSW	0.9

Measurement Method : - Wind speed and direction recording meter

Remarks :
 - WS = Wind Speed
 - WD = Wind Direction

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E 271524

Report No. : 2023-500000077 / 002-5 (Page 2 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : November 3-4, 2023
MEASURED BY :

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	-	-	8.33	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	8.33	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	4.17	-	-	-	-
SW	-	4.17	-	-	-
WSW	-	-	-	-	-
W	4.17	4.17	16.67	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	50.00				

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E 271525

Report No. : 2023-500000077 / 002-6 (Page 1 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : November 3-4, 2023
MEASURED BY :

Location	TIME	November 3-4, 2023	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	ENE	2.2
	10:00-11:00	ENE	2.2
	11:00-12:00	ENE	2.2
	12:00-13:00	ENE	2.7
	13:00-14:00	S	2.7
	14:00-15:00	WSW	2.2
	15:00-16:00	WSW	2.2
	16:00-17:00	WSW	1.8
	17:00-18:00	WSW	3.1
	18:00-19:00	WSW	2.2
	19:00-20:00	WSW	2.2
	20:00-21:00	SSW	0.9
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	ENE	0.9
	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	NE	0.9
	07:00-08:00	-	CALM
	08:00-09:00	-	CALM

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-500000077 / 002-6 (Page 2 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : November 3-4, 2023
MEASURED BY : [REDACTED]

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	4.17	-	-	-	-
ENE	4.17	-	16.67	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	4.17	-	-
SSW	4.17	-	-	-	-
SW	-	-	-	-	-
WSW	-	4.17	16.67	4.17	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	41.67				

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E 271528

Report No. : 2023-500000077 / 002-6 (Page 3 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction

MEASUREMENT LOCATION : New CO Plant of BTC

LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : November 3-4, 2023

MEASURED BY :

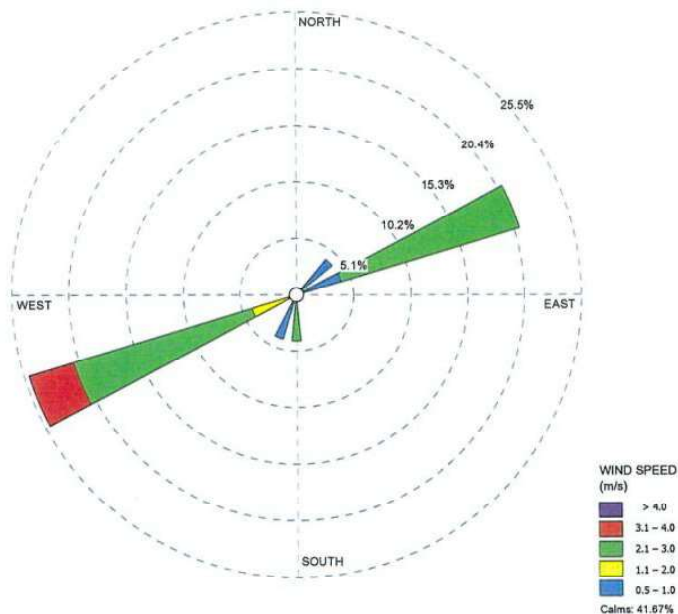
WIND ROSE PLOT

สถานีตรวจวัด

: New CO Plant of BTC

วันที่ตรวจวัด

: วันที่ 3-4 พฤศจิกายน พ.ศ. 2566



Wind Direction (Blowing from)

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Report No. : 2023-500000077 / 002-7 (Page 1 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : November 3-4, 2023
MEASURED BY :

Location	TIME	November 3-4, 2023	
		WD	WS (m/s)
Siam Yamato Steel Plant	10:00-11:00	E	1.8
	11:00-12:00	E	1.8
	12:00-13:00	E	2.7
	13:00-14:00	ESE	3.1
	14:00-15:00	N	3.6
	15:00-16:00	WSW	3.1
	16:00-17:00	W	3.6
	17:00-18:00	N	2.7
	18:00-19:00	WSW	2.7
	19:00-20:00	WSW	2.7
	20:00-21:00	N	1.3
	21:00-22:00	N	0.9
	22:00-23:00	-	CALM
	23:00-00:00	ENE	1.3
	00:00-01:00	NE	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	NE	1.3
	08:00-09:00	E	0.9
	09:00-10:00	W	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks :
 - WS = Wind Speed
 - WD = Wind Direction

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E 271530

Report No. : 2023-500000077 / 002-7 (Page 2 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : November 3-4, 2023
MEASURED BY : [REDACTED]

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	4.17	4.17	4.17	4.17	-
NNE	-	-	-	-	-
NE	4.17	4.17	-	-	-
ENE	-	4.17	-	-	-
E	4.17	8.33	4.17	-	-
ESE	-	-	-	4.17	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	8.33	4.17	-
W	-	-	4.17	4.17	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	29.17				

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E 271531

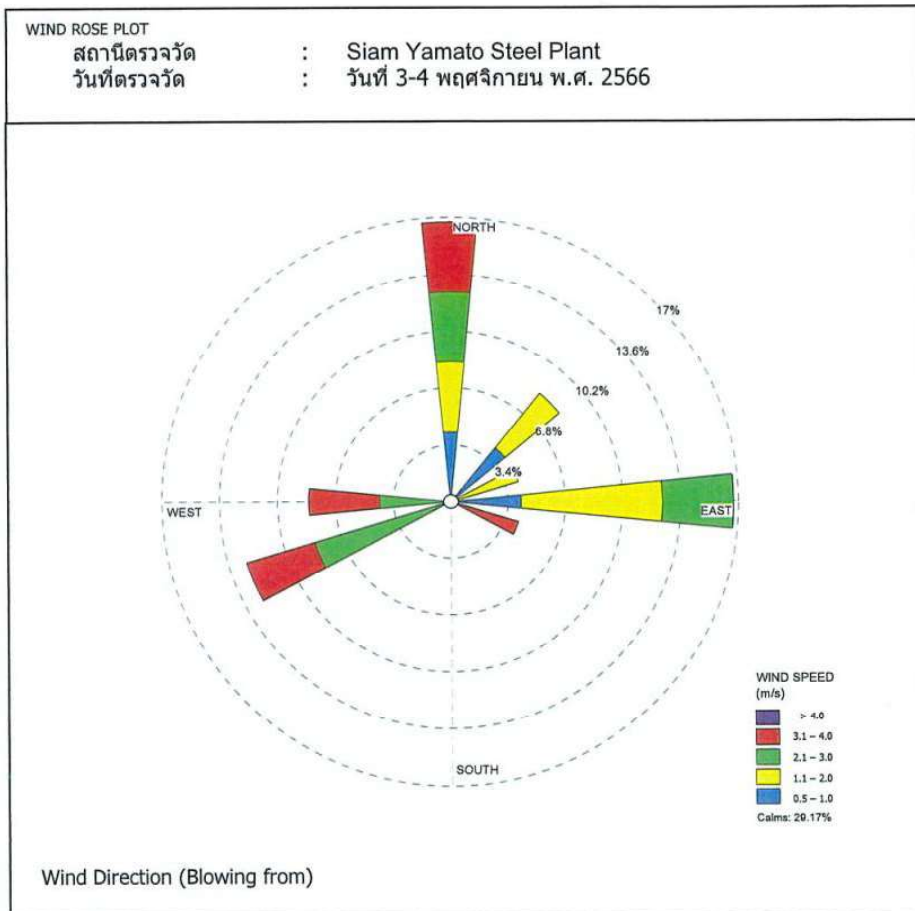
Report No. : 2023-500000077 / 002-7 (Page 3 of 3) Issued date : November 21, 2023

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Siam Yamato Steel Plant
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : November 3-4, 2023
MEASURED BY :



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Report No. : 2023-500000291 / 003-1 (Page 1 of 4) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : December 12-13, 2023
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	0.61	1.05	-	-
2. Dichlorodifluoromethane (F-12)	0.38	1.88	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.16	2.37	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	2.64	4.75	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.07	0.25	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.41	1.21	-	-
15. Ethanol	3.80	7.16	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.93	11.71	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.22	0.37	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.86	2.99	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2023-500000291 / 003-1 (Page 2 of 4) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : December 12-13, 2023
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.13	0.44	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.02	3.00	-	-
38. Chloroform	0.07	0.32	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.52	1.66	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.81	3.03	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-1 (Page 3 of 4) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : December 12-13, 2023
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.34	1.48	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2023-500000291 / 003-1 (Page 4 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 12-13, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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).

****** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2023-500000291 / 003-2 (Page 1 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 12-13, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	3.72	6.40	-	-
2. Dichlorodifluoromethane (F-12)	0.44	2.18	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.36	2.78	-	-
6. Isobutene	1.36	3.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.88	1.95	5.3	-
9. Acetaldehyde	91.20	164.50	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	4.72	13.93	-	-
15. Ethanol	5.2	9.80	-	-
16. Isoprene	0.16	0.44	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.28	14.92	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.24	0.40	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	1.40	4.86	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-2 (Page 2 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 12-13, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.08	3.81	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.76	5.18	-	-
38. Chloroform	0.08	0.39	57	-
39. Cyclohexane	0.48	1.65	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	1.04	3.32	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	2.24	8.07	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	4.28	16.13	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	0.08	0.54	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-2 (Page 3 of 4)

Issued date : January 8, 2024

CLIENT : INFOES STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 12-13, 2023
SAMPLING LOCATION : New CO Plant of BTC **SAMPLING BY :**
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.32	1.47	-	-
63. Ethylbenzene	0.56	2.43	-	-
64. p,m-Xylene	0.80	3.47	-	-
65. o-Xylene	0.16	0.69	-	-
66. Styrene	0.32	1.36	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	0.12	0.59	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-2 (Page 4 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 12-13, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppm)	(mg/m ³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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. : 2023-500000291 / 003-3 (Page 1 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 12-13, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant (I-8 Road) **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs				
1. Propene	2.51	4.32	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.44	1.56	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.19	2.43	-	-
6. Isobutene	1.07	2.45	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	1.78	3.94	5.3	-
9. Acetaldehyde	3.94	7.11	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	4.78	14.11	-	-
15. Ethanol	3.4	6.41	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.09	14.47	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.20	0.34	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	1.87	6.50	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-3 (Page 2 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 12-13, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant (I-8 Road) **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	1.59	5.60	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	1.67	4.92	-	-
38. Chloroform	0.08	0.39	57	-
39. Cyclohexane	0.68	2.34	-	-
40. 1,1,1-trichloromethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.84	2.68	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	0.4	1.21	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	3.54	13.34	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	0.08	0.54	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-3 (Page 3 of 4)

Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT : [REDACTED]
ADDRESS : [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** December 12-13, 2023
SAMPLING LOCATION : Siam Yamato Steel Plant (I-8 Road) **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m ³)	Standard** (µg/m ³)
	(ppb)	(µg/m ³)		
VOCs (Cont.)				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	1.47	6.38	-	-
64. p,m-Xylene	0.80	3.47	-	-
65. o-Xylene	0.32	1.39	-	-
66. Styrene	4.54	19.34	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	0.16	0.79	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: * Notification of 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. : 2023-500000291 / 003-3 (Page 4 of 4) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Siam Yamato Steel Plant (I-8 Road)
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 12-13, 2023
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ($\mu\text{g}/\text{m}^3$)	Standard** ($\mu\text{g}/\text{m}^3$)
	(ppm)	(mg/m^3)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

Remark: - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

Sources: * Notification of 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).

** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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Report No. : 2023-500000291 / 003-5 (Page 1 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : December 12-13, 2023
MEASURED BY :

Location	TIME	December 12-13, 2023	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	E	2.7
	11:00-12:00	ENE	2.2
	12:00-13:00	SSE	1.8
	13:00-14:00	SE	1.8
	14:00-15:00	SSW	1.8
	15:00-16:00	S	1.3
	16:00-17:00	S	1.3
	17:00-18:00	WNW	0.9
	18:00-19:00	WNW	0.9
	19:00-20:00	WNW	1.8
	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	ENE	0.9
	06:00-07:00	-	CALM
	07:00-08:00	ENE	0.9
	08:00-09:00	ENE	1.3
	09:00-10:00	ENE	1.8

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-500000291 / 003-5 (Page 2 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction

MEASUREMENT DATE : December 12-13, 2023

MEASUREMENT LOCATION : Ban Aow Pradoo

MEASURED BY :

LABORATORY NAME : SGS (Thailand) Limited

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	8.33	8.33	4.17	-	-
E	-	-	4.17	-	-
ESE	-	-	-	-	-
SE	-	4.17	-	-	-
SSE	-	4.17	-	-	-
S	-	8.33	-	-	-
SSW	-	4.17	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	8.33	4.17	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	41.67				

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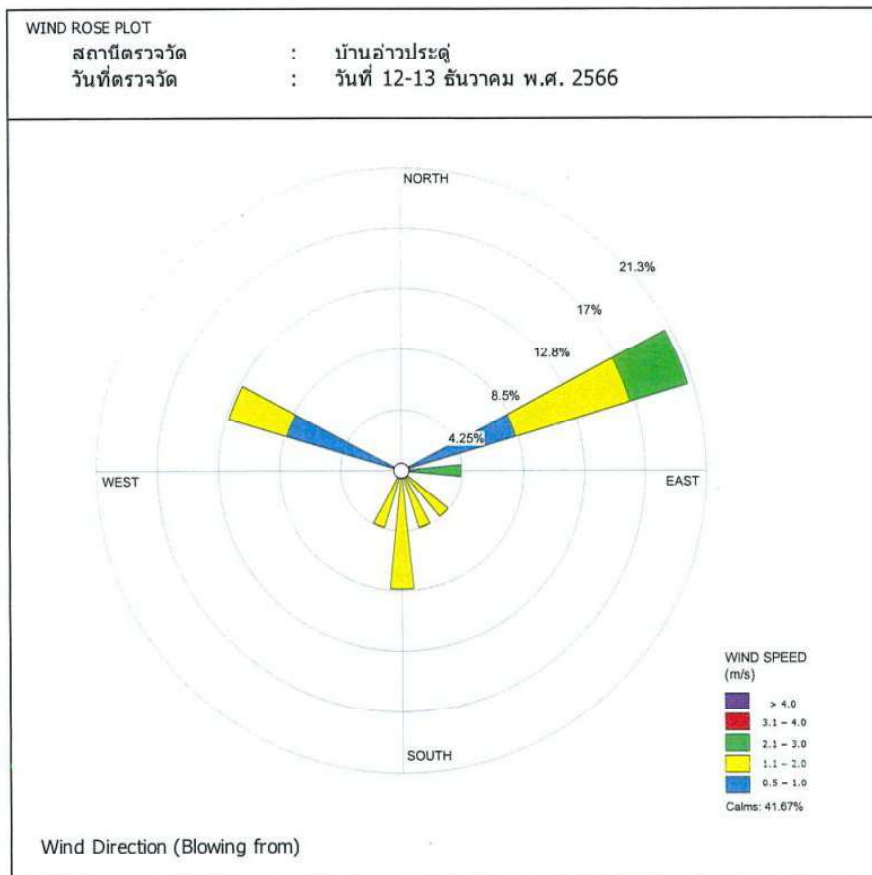
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Report No. : 2023-500000291 / 003-5 (Page 3 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : December 12-13, 2023
MEASURED BY :



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Report No. : 2023-500000291 / 003-6 (Page 1 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : December 12-13, 2023
MEASURED BY :

Location	TIME	December 12-13, 2023	
		WD	WS (m/s)
New CO Plant of BTC	08:00-09:00	NNE	0.9
	09:00-10:00	E	1.3
	10:00-11:00	E	1.8
	11:00-12:00	SSW	2.2
	12:00-13:00	SSW	2.2
	13:00-14:00	S	2.2
	14:00-15:00	S	2.2
	15:00-16:00	WSW	2.2
	16:00-17:00	WSW	1.8
	17:00-18:00	WSW	1.8
	18:00-19:00	W	1.3
	19:00-20:00	WSW	1.3
	20:00-21:00	ENE	0.9
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	ENE	0.9
	01:00-02:00	ENE	0.9
	02:00-03:00	ENE	0.9
	03:00-04:00	NE	0.9
	04:00-05:00	ENE	0.9
	05:00-06:00	ENE	1.3
	06:00-07:00	ENE	0.9
	07:00-08:00	ENE	0.9

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-500000291 / 003-6 (Page 2 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction

MEASUREMENT DATE : December 12-13, 2023

MEASUREMENT LOCATION : New CO Plant of BTC

MEASURED BY :

LABORATORY NAME : SGS (Thailand) Limited

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	4.17	-	-	-	-
NE	4.17	-	-	-	-
ENE	29.17	4.17	-	-	-
E	-	8.33	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	8.33	-	-
SSW	-	-	8.33	-	-
SW	-	-	-	-	-
WSW	-	12.50	4.17	-	-
W	-	4.17	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	12.50				

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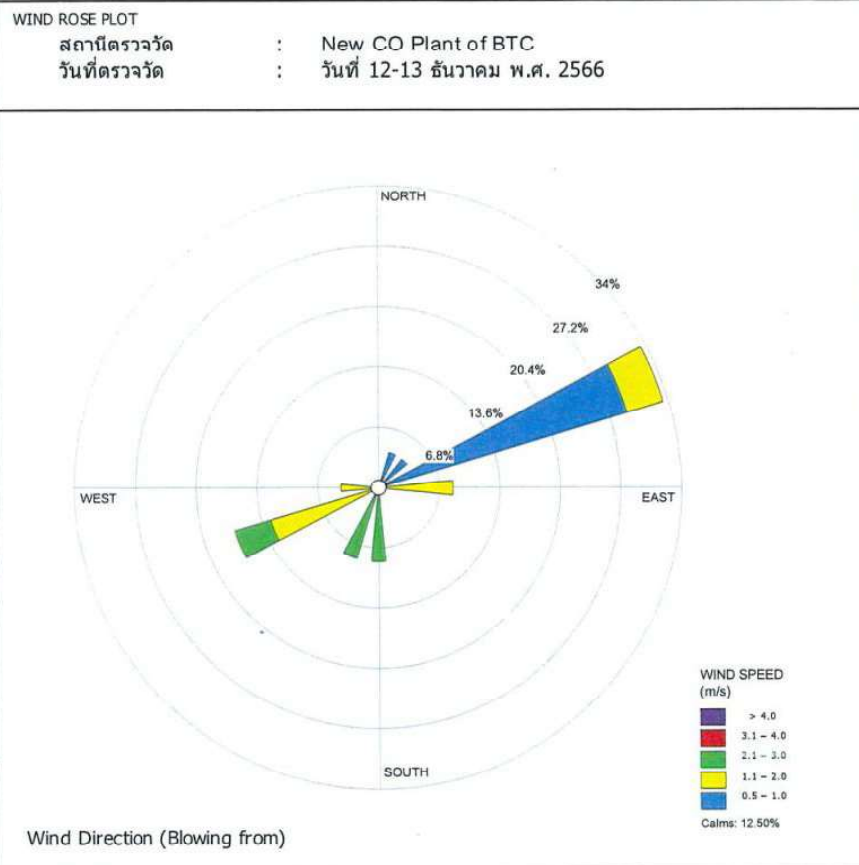
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Report No. : 2023-500000291 / 003-6 (Page 3 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : December 12-13, 2023
MEASURED BY :



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Report No. : 2023-500000291 / 003-7 (Page 1 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : December 12-13, 2023
MEASUREMENT LOCATION : Siam Yamato Steel Plant (I-8 Road) MEASURED BY :
LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	December 12-13, 2023	
		WD	WS (m/s)
Siam Yamato Steel Plant	09:00-10:00	ENE	1.8
	10:00-11:00	SE	1.8
	11:00-12:00	SE	1.8
	12:00-13:00	ESE	1.3
	13:00-14:00	SW	1.3
	14:00-15:00	WSW	1.3
	15:00-16:00	SW	1.3
	16:00-17:00	SW	1.3
	17:00-18:00	SW	0.9
	18:00-19:00	SW	0.9
	19:00-20:00	-	CALM
	20:00-21:00	-	CALM
	21:00-22:00	ENE	0.9
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	-	CALM
	02:00-03:00	NE	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	ENE	0.9
	08:00-09:00	ENE	0.9

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed
- WD = Wind Direction

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Report No. : 2023-500000291 / 003-7 (Page 2 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction **MEASUREMENT DATE :** December 12-13, 2023

MEASUREMENT LOCATION : Siam Yamato Steel Plant (I-8 Road) **MEASURED BY**

LABORATORY NAME : SGS (Thailand) Limited

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	4.17	-	-	-	-
ENE	12.50	4.17	-	-	-
E	-	-	-	-	-
ESE	-	4.17	-	-	-
SE	-	8.33	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	8.33	12.50	-	-	-
WSW	-	4.17	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	41.67				

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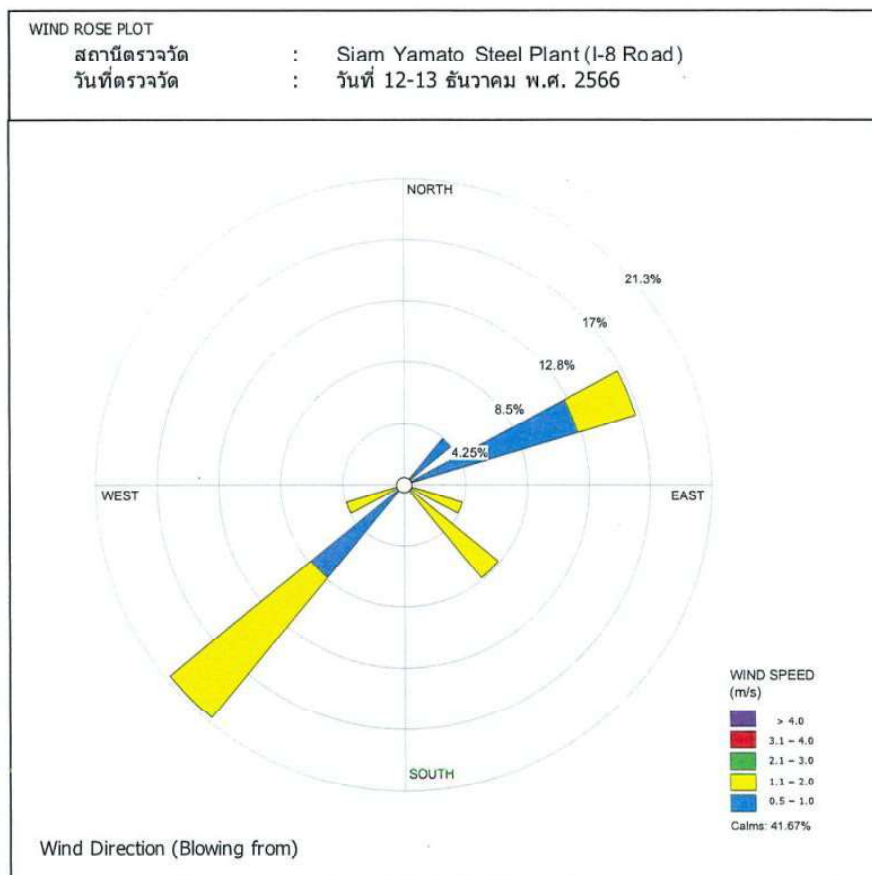
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Report No. : 2023-500000291 / 003-7 (Page 3 of 3) Issued date : January 8, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : December 12-13, 2023
MEASUREMENT LOCATION : Siam Yamato Steel Plant (I-8 Road) MEASURED BY
LABORATORY NAME : SGS (Thailand) Limited



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