

คุณภาพอากาศในบรรยากาศ (VOCs by Canister)

Report No. : 2023-5007330 / 002-1 (Page 1 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : July 3-4, 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 | 1.26 | 2.16 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.46 | 2.28 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.48 | 1.70 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.92 | 1.88 | - | - |
| 6. Isobutene | 1.66 | 3.79 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 1.86 | 4.10 | 5.3 | - |
| 9. Acetaldehyde | 3.06 | 5.51 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | <0.05 | <0.19 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.28 | 1.57 | - | - |
| 14. Pentane | 3.39 | 10.00 | - | - |
| 15. Ethanol | 4.70 | 8.86 | - | - |
| 16. Isoprene | 0.48 | 1.33 | - | - |
| 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 | 2.56 | 6.07 | - | - |
| 22. Iodomethane | <0.05 | <0.29 | - | - |
| 23. Carbonylsulfide | <0.05 | <0.16 | - | 100 |
| 24. Isopropanol | <0.05 | <0.12 | - | - |
| 25. Acetonitrile | <0.05 | <0.08 | - | - |
| 26. Cyclopentane | <0.19 | <0.53 | - | - |
| 27. Dichloromethane | 0.18 | 0.63 | 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 Carbonylsulfide 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. : 2023-5007330 / 002-1 (Page 2 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : July 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 (Cont.) | | | | |
| 29. Hexane | 1.32 | 4.64 | - | - |
| 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 | 0.13 | 0.37 | - | - |
| 38. Chloroform | <0.05 | <0.24 | 57 | - |
| 39. Cyclohexane | 0.38 | 1.31 | - | - |
| 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 | <0.45 | <1.36 | - | - |
| 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 | <0.39 | <1.58 | - | - |
| 54. Toluene | 1.08 | 4.05 | - | - |
| 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. : 2023-5007330 / 002-1 (Page 3 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : July 3-4, 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 (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 | 0.88 | 3.80 | - | - |
| 64. p,m-Xylene | 1.32 | 5.71 | - | - |
| 65. o-Xylene | 0.36 | 1.56 | - | - |
| 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 | <0.07 | <0.32 | - | - |
| 70. 1,2,4-trimethylbenzene | 0.07 | 0.32 | - | - |
| 71. 1,3-dichlorobenzene | <0.05 | <0.30 | - | - |
| 72. 1,4- dichlorobenzene | <0.05 | <0.30 | 1,100 | - |
| 73. 1,2,3-trimethylbenzene | 0.30 | 1.47 | - | - |
| 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. : 2023-5007330 / 002-1 (Page 4 of 4)

Issued date : July 14, 2023

CLIENT : INFO S TYROLUTION (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 : July 3-4, 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. : 2023-5007330 / 002-2 (Page 1 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : July 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 | 0.68 | 1.17 | - | - |
| 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 | 0.88 | 1.80 | - | - |
| 6. Isobutene | 2.35 | 5.38 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 1.23 | 2.72 | 5.3 | - |
| 9. Acetaldehyde | 3.46 | 6.24 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | <0.05 | <0.19 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.28 | 1.57 | - | - |
| 14. Pentane | 0.12 | 0.35 | - | - |
| 15. Ethanol | 8.50 | 16.02 | - | - |
| 16. Isoprene | 0.32 | 0.89 | - | - |
| 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 | 3.14 | 7.46 | - | - |
| 22. Iodomethane | <0.05 | <0.29 | - | - |
| 23. Carbondisulfide | 0.08 | 0.25 | - | 100 |
| 24. Isopropanol | <0.05 | <0.12 | - | - |
| 25. Acetonitrile | <0.05 | <0.08 | - | - |
| 26. Cyclopentane | <0.05 | <0.14 | - | - |
| 27. Dichloromethane | 0.24 | 0.83 | 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. : 2023-5007330 / 002-2 (Page 2 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE: July 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/m ³) | Standard** (µg/m ³) |
|------------------------------|------------------------------|----------------------|--|------------------------------------|
| | (ppb) | (µg/m ³) | | |
| VOCs (Cont.) | | | | |
| 29. Hexane | 0.56 | 1.97 | - | - |
| 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 | 0.20 | 0.59 | - | - |
| 38. Chloroform | <0.05 | <0.24 | 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 | 0.08 | 0.26 | 7.6 | - |
| 43. 1,2-dichloroethane (EDC) | <0.05 | <0.20 | 48 | - |
| 44. Trichloroethylene | 0.12 | 0.64 | 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 | 0.16 | 0.66 | - | - |
| 54. Toluene | 1.83 | 6.90 | - | - |
| 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. : 2023-5007330 / 002-2 (Page 3 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE: July 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 (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 | 1.27 | 5.51 | - | - |
| 64. p,m-Xylene | 0.96 | 4.17 | - | - |
| 65. o-Xylene | 0.20 | 0.87 | - | - |
| 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 | <0.05 | <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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Member of the SGS Group

Report No. : 2023-5007330 / 002-2 (Page 4 of 4)

Issued date : July 14, 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: July 3-4, 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).

** 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. : 2023-5007330 / 002-3 (Page 1 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : July 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/m ³) | Standard** (µg/m ³) |
|---|------------------------------|----------------------|--|------------------------------------|
| | (ppb) | (µg/m ³) | | |
| VOCs | | | | |
| 1. Propene | 1.07 | 1.84 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.48 | 2.38 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.52 | 1.84 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.88 | 1.80 | - | - |
| 6. Isobutene | 0.32 | 0.73 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 0.40 | 0.88 | 5.3 | - |
| 9. Acetaldehyde | 2.43 | 4.38 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | <0.05 | <0.19 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.28 | 1.57 | - | - |
| 14. Pentane | 1.31 | 3.87 | - | - |
| 15. Ethanol | 3.20 | 6.03 | - | - |
| 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 | 3.26 | 7.74 | - | - |
| 22. Iodomethane | <0.05 | <0.29 | - | - |
| 23. Carbonylsulfide | <0.05 | <0.16 | - | 100 |
| 24. Isopropanol | 0.60 | 1.47 | - | - |
| 25. Acetonitrile | <0.05 | <0.08 | - | - |
| 26. Cyclopentane | <0.05 | <0.14 | - | - |
| 27. Dichloromethane | 0.24 | 0.83 | 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 Carbonylsulfide 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. : 2023-5007330 / 002-3 (Page 2 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE:** July 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 | 1.27 | 4.48 | - | - |
| 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 | 0.76 | 2.24 | - | - |
| 38. Chloroform | <0.05 | <0.24 | 57 | - |
| 39. Cyclohexane | 1.39 | 4.78 | - | - |
| 40. 1,1,1-trichloromethane | <0.05 | <0.27 | - | - |
| 41. Carbon Tetrachloride | <0.05 | <0.31 | 150 | - |
| 42. Benzene | 0.44 | 1.41 | 7.6 | - |
| 43. 1,2-dichloroethane (EDC) | 0.16 | 0.65 | 48 | - |
| 44. Trichloroethylene | 0.12 | 0.64 | 130 | - |
| 45. 1-Butanol | 0.60 | 1.82 | - | - |
| 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 | 1.71 | 6.44 | - | - |
| 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. : 2023-5007330 / 002-3 (Page 3 of 4)

Issued date : July 14, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : July 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/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 | 0.96 | 4.17 | - | - |
| 64. p,m-Xylene | 1.03 | 4.47 | - | - |
| 65. o-Xylene | <0.05 | <0.22 | - | - |
| 66. Styrene | 4.18 | 17.81 | - | - |
| 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 | 0.28 | 1.37 | - | - |
| 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. : 2023-5007330 / 002-3 (Page 4 of 4)

Issued date : July 14, 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: July 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. : 2023-5007330 / 002-5 (Page 1 of 3)

Issued date : July 14, 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 : July 3-4, 2023
MEASURED BY :

| Location | TIME | July 3-4, 2023 | |
|----------------|-------------|----------------|----------|
| | | WD | WS (m/s) |
| Ban Aow Pradoo | 11:00-12:00 | W | 2.7 |
| | 12:00-13:00 | W | 2.2 |
| | 13:00-14:00 | W | 1.8 |
| | 14:00-15:00 | WSW | 2.7 |
| | 15:00-16:00 | W | 3.1 |
| | 16:00-17:00 | W | 2.2 |
| | 17:00-18:00 | W | 2.2 |
| | 18:00-19:00 | W | 1.8 |
| | 19:00-20:00 | W | 2.7 |
| | 20:00-21:00 | W | 2.2 |
| | 21:00-22:00 | W | 2.2 |
| | 22:00-23:00 | W | 2.2 |
| | 23:00-00:00 | - | CALM |
| | 00:00-01:00 | - | CALM |
| | 01:00-02:00 | SSE | 0.9 |
| | 02:00-03:00 | S | 0.9 |
| | 03:00-04:00 | SSW | 0.9 |
| | 04:00-05:00 | SSE | 0.9 |
| | 05:00-06:00 | - | CALM |
| | 06:00-07:00 | - | CALM |
| | 07:00-08:00 | S | 0.9 |
| | 08:00-09:00 | S | 1.3 |
| | 09:00-10:00 | SSW | 1.3 |
| | 10:00-11:00 | SSW | 1.3 |

Measurement Method : - Wind speed and direction recording meter

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

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Report No. : 2023-5007330 / 002-5 (Page 2 of 3)

Issued date : July 14, 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 : July 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 | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | 8.33 | - | - | - | - |
| S | 8.33 | 4.17 | - | - | - |
| SSW | 4.17 | 8.33 | - | - | - |
| SW | - | - | - | - | - |
| WSW | - | - | 4.17 | - | - |
| W | - | 8.33 | 33.33 | 4.17 | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 16.67 | | | | |

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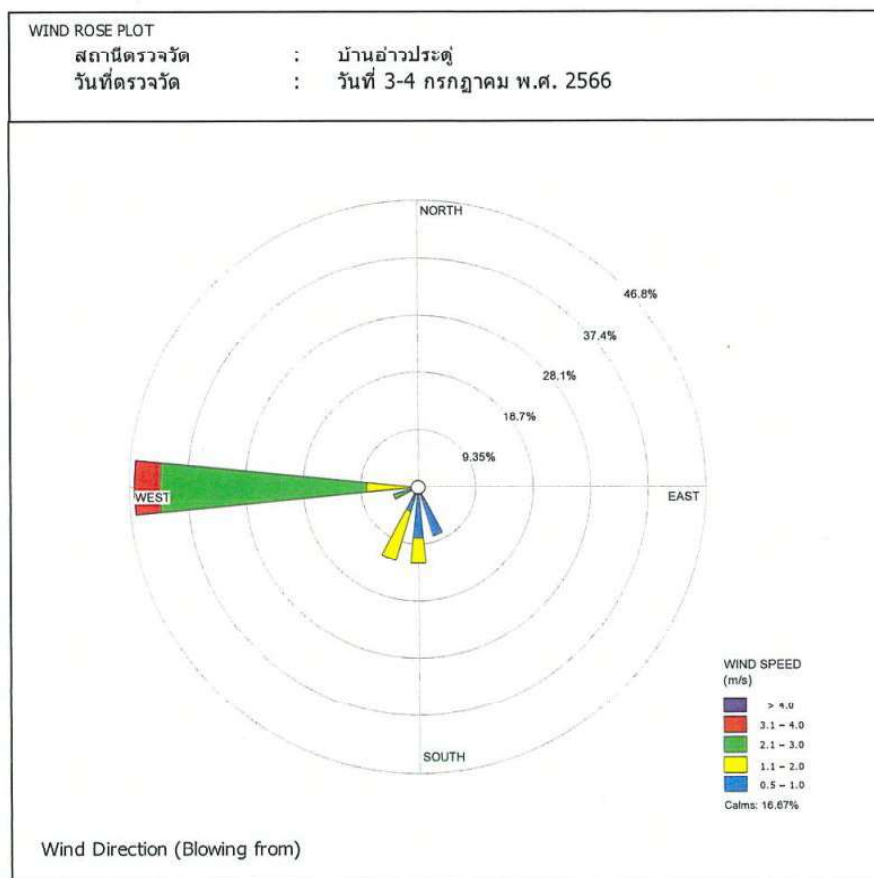
Report No. : 2023-5007330 / 002-5 (Page 3 of 3)

Issued date : July 14, 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 : July 3-4, 2023
MEASURED BY :



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Report No. : 2023-5007330 / 002-6 (Page 1 of 3)

Issued date : July 14, 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 : July 3-4, 2023
MEASURED BY :

| Location | TIME | July 3-4, 2023 | |
|---------------------|-------------|----------------|----------|
| | | WD | WS (m/s) |
| New CO Plant of BTC | 09:00-10:00 | WSW | 2.7 |
| | 10:00-11:00 | WSW | 2.7 |
| | 11:00-12:00 | W | 2.7 |
| | 12:00-13:00 | SW | 2.2 |
| | 13:00-14:00 | WNW | 2.7 |
| | 14:00-15:00 | SW | 2.7 |
| | 15:00-16:00 | WSW | 2.2 |
| | 16:00-17:00 | WSW | 1.3 |
| | 17:00-18:00 | WSW | 1.3 |
| | 18:00-19:00 | WSW | 2.2 |
| | 19:00-20:00 | WSW | 1.8 |
| | 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 | 2.2 |
| | 00:00-01:00 | S | 1.8 |
| | 01:00-02:00 | S | 1.8 |
| | 02:00-03:00 | WSW | 2.2 |
| | 03:00-04:00 | S | 1.3 |
| | 04:00-05:00 | S | 1.8 |
| | 05:00-06:00 | S | 1.8 |
| | 06:00-07:00 | S | 1.8 |
| | 07:00-08:00 | W | 2.2 |
| | 08:00-09:00 | WSW | 2.7 |

Measurement Method : - Wind speed and direction recording meter

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

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SGS (Thailand) Limited

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Report No. : 2023-5007330 / 002-6 (Page 2 of 3)

Issued date : July 14, 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 : July 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 | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | 25.00 | 4.17 | - | - |
| SSW | - | - | - | - | - |
| SW | - | 4.17 | 8.33 | - | - |
| WSW | 4.17 | 16.67 | 25.00 | - | - |
| W | - | - | 8.33 | - | - |
| WNW | - | - | 4.17 | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

TY/JM/SV/SV

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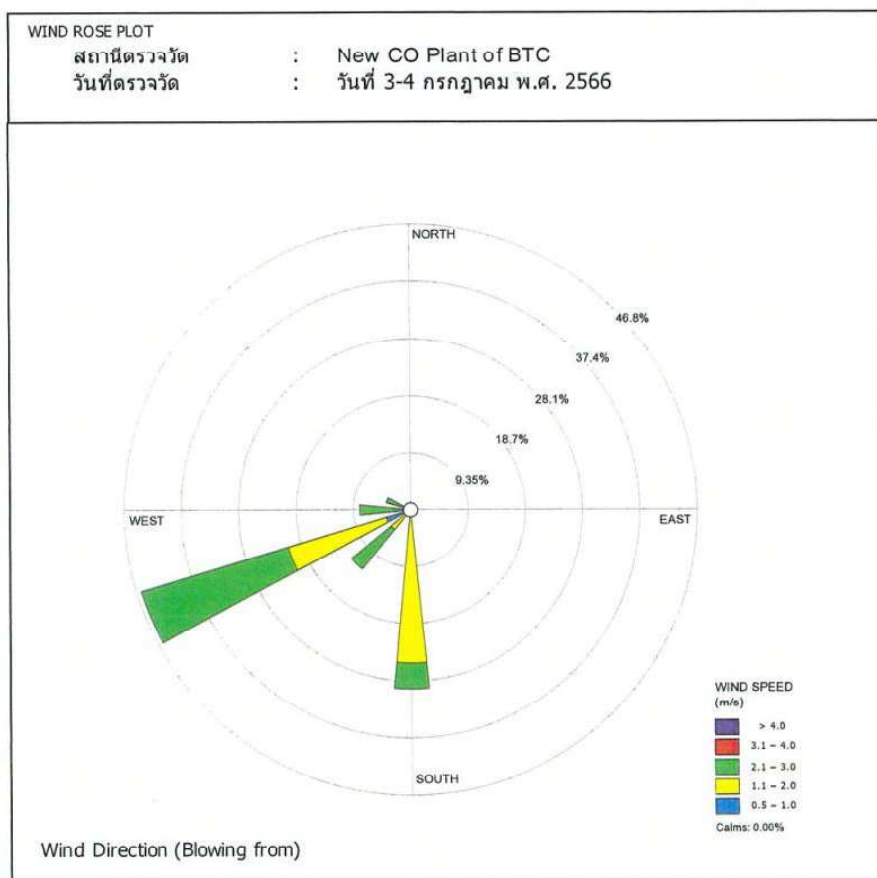
Report No. : 2023-5007330 / 002-6 (Page 3 of 3)

Issued date : July 14, 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 : July 3-4, 2023
MEASURED BY :



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E 265670

Report No. : 2023-5007330 / 002-7 (Page 1 of 3)

Issued date : July 14, 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 : July 3-4, 2023
MEASURED BY :

| Location | TIME | July 3-4, 2023 | |
|-------------------------|-------------|----------------|----------|
| | | WD | WS (m/s) |
| Siam Yamato Steel Plant | 10:00-11:00 | SSW | 4.0 |
| | 11:00-12:00 | SW | 3.6 |
| | 12:00-13:00 | WSW | 3.6 |
| | 13:00-14:00 | WSW | 4.0 |
| | 14:00-15:00 | SW | 4.0 |
| | 15:00-16:00 | S | 3.1 |
| | 16:00-17:00 | WSW | 3.1 |
| | 17:00-18:00 | WSW | 2.7 |
| | 18:00-19:00 | WSW | 3.1 |
| | 19:00-20:00 | WSW | 2.2 |
| | 20:00-21:00 | WSW | 0.9 |
| | 21:00-22:00 | WSW | 1.3 |
| | 22:00-23:00 | WSW | 2.2 |
| | 23:00-00:00 | WSW | 2.2 |
| | 00:00-01:00 | SW | 2.2 |
| | 01:00-02:00 | WSW | 2.2 |
| | 02:00-03:00 | WSW | 2.7 |
| | 03:00-04:00 | SW | 2.2 |
| | 04:00-05:00 | WSW | 2.2 |
| | 05:00-06:00 | SW | 1.8 |
| | 06:00-07:00 | SW | 2.2 |
| | 07:00-08:00 | SW | 2.7 |
| | 08:00-09:00 | SW | 2.7 |
| | 09:00-10:00 | SW | 2.7 |

Measurement Method : - Wind speed and direction recording meter

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

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E 265671

Report No. : 2023-5007330 / 002-7 (Page 2 of 3)

Issued date : July 14, 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 : July 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 | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | - | - | 4.17 | - |
| SSW | - | - | - | 4.17 | - |
| SW | - | 4.17 | 25.00 | 8.33 | - |
| WSW | 4.17 | 4.17 | 29.17 | 16.67 | - |
| W | - | - | - | - | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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Report No. : 2023-5007330 / 002-7 (Page 3 of 3)

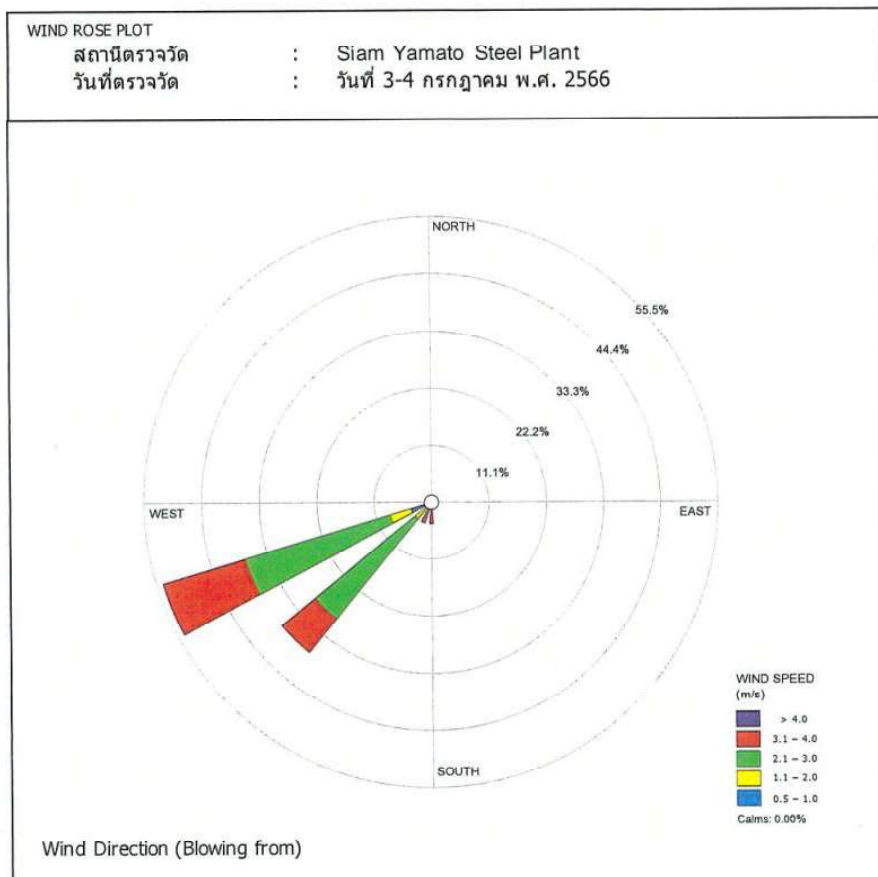
Issued date : July 14, 2023

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 : July 3-4, 2023
MEASURED BY :



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Report No. : 2023-5007553 / 002-1 (Page 1 of 4)

Issued date : August 22, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : August 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 | 1.60 | 2.75 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.44 | 2.18 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.46 | 1.63 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.82 | 1.68 | - | - |
| 6. Isobutene | 0.48 | 1.10 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 0.34 | 0.75 | 5.3 | - |
| 9. Acetaldehyde | 3.25 | 5.86 | 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 | 1.98 | 5.83 | - | - |
| 15. Ethanol | 5.05 | 9.52 | - | - |
| 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 | 4.45 | 10.57 | - | - |
| 22. Iodomethane | <0.05 | <0.29 | - | - |
| 23. Carbondisulfide | 0.66 | 2.06 | - | 100 |
| 24. Isopropanol | <0.05 | <0.12 | - | - |
| 25. Acetonitrile | <0.05 | <0.08 | - | - |
| 26. Cyclopentane | <0.05 | <0.14 | - | - |
| 27. Dichloromethane | 2.00 | 6.93 | 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. : 2023-5007553 / 002-1 (Page 2 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : August 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 (Cont.) | | | | |
| 29. Hexane | 7.10 | 25.03 | - | - |
| 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 | 0.24 | 0.71 | - | - |
| 38. Chloroform | 2.44 | 11.89 | 57 | - |
| 39. Cyclohexane | 0.68 | 2.34 | - | - |
| 40. 1,1,1-trichloroethane | <0.05 | <0.27 | - | - |
| 41. Carbon Tetrachloride | <0.05 | <0.31 | 150 | - |
| 42. Benzene | 0.32 | 1.02 | 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 | 4.50 | - | - |
| 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. : 2023-5007553 / 002-1 (Page 3 of 4)

Issued date : August 22, 2023

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

Analysis Report

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

| Parameter | Analytical Value (avg-24 hr) | | Surveillant value* ($\mu\text{g}/\text{m}^3$) | Standard** ($\mu\text{g}/\text{m}^3$) |
|-------------------------------|------------------------------|------------------------------|--|--|
| | (ppb) | ($\mu\text{g}/\text{m}^3$) | | |
| 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 | 0.24 | 1.04 | - | - |
| 64. p,m-Xylene | 0.88 | 3.82 | - | - |
| 65. o-Xylene | <0.05 | <0.22 | - | - |
| 66. Styrene | 0.90 | 3.83 | - | - |
| 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).

** 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. : 2023-5007553 / 002-1 (Page 4 of 4)

Issued date : August 22, 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 : August 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. : 2023-5007553 / 002-2 (Page 1 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : August 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* ($\mu\text{g}/\text{m}^3$) | Standard** ($\mu\text{g}/\text{m}^3$) |
|--|------------------------------|------------------------------|--|--|
| | (ppb) | ($\mu\text{g}/\text{m}^3$) | | |
| VOCs | | | | |
| 1. Propene | 2.87 | 4.94 | - | - |
| 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 | 0.80 | 1.64 | - | - |
| 6. Isobutene | 3.02 | 6.92 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 1.83 | 4.05 | 5.3 | - |
| 9. Acetaldehyde | 3.10 | 5.59 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | 0.16 | 0.62 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.24 | 1.35 | - | - |
| 14. Pentane | 3.26 | 9.62 | - | - |
| 15. Ethanol | 1.20 | 2.26 | - | - |
| 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 | 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 | 0.24 | 0.69 | - | - |
| 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).

** 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. : 2023-5007553 / 002-2 (Page 2 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE:** August 3-4, 2023

SAMPLING LOCATION : New CO Plant of BTC

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING BY :

| Parameter | Analytical Value (avg-24 hr) | | Surveillant value* (µg/m³) | Standard** (µg/m³) |
|------------------------------|------------------------------|---------|-------------------------------|-----------------------|
| | (ppb) | (µg/m³) | | |
| VOCs (Cont.) | | | | |
| 29. Hexane | 0.88 | 3.10 | - | - |
| 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 | 0.16 | 0.47 | - | - |
| 38. Chloroform | 0.16 | 0.78 | 57 | - |
| 39. Cyclohexane | 0.28 | 0.96 | - | - |
| 40. 1,1,1-trichloroethane | <0.05 | <0.27 | - | - |
| 41. Carbon Tetrachloride | <0.05 | <0.31 | 150 | - |
| 42. Benzene | 0.48 | 1.53 | 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 | 1.03 | 3.88 | - | - |
| 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. : 2023-5007553 / 002-2 (Page 3 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : August 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/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 | 0.40 | 1.74 | - | - |
| 64. p,m-Xylene | 0.56 | 2.43 | - | - |
| 65. o-Xylene | <0.05 | <0.22 | - | - |
| 66. Styrene | 2.83 | 12.05 | - | - |
| 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. : 2023-5007553 / 002-2 (Page 4 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE: August 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) |
|----------------------|------------------------------|---------|-------------------------------|-----------------------|
| | (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. : 2023-5007553 / 002-3 (Page 1 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : August 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 | | | | |
| 1. Propene | 1.60 | 2.75 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.40 | 1.98 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.52 | 1.84 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.84 | 1.72 | - | - |
| 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 | 1.84 | 3.32 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | <0.05 | <0.19 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.28 | 1.57 | - | - |
| 14. Pentane | 1.04 | 3.07 | - | - |
| 15. Ethanol | 1.20 | 2.26 | - | - |
| 16. Isoprene | 0.12 | 0.33 | - | - |
| 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 | 2.72 | 6.46 | - | - |
| 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. : 2023-5007553 / 002-3 (Page 2 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : August 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/m ³) | Standard** (µg/m ³) |
|------------------------------|------------------------------|----------------------|--|------------------------------------|
| | (ppb) | (µg/m ³) | | |
| VOCs (Cont.) | | | | |
| 29. Hexane | 0.64 | 2.26 | - | - |
| 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 | 0.16 | 0.47 | - | - |
| 38. Chloroform | 0.20 | 0.98 | 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 | 0.36 | 1.15 | 7.6 | - |
| 43. 1,2-dichloroethane (EDC) | <0.05 | <0.20 | 48 | - |
| 44. Trichloroethylene | 0.16 | 0.86 | 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 | 0.32 | 1.21 | - | - |
| 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. : 2023-5007553 / 002-3 (Page 3 of 4)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : August 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 | <0.05 | <0.20 | - | - |
| 61. 1,2-dibromoethane | <0.05 | <0.38 | 370 | - |
| 62. Chlorobenzene | <0.05 | <0.23 | - | - |
| 63. Ethylbenzene | 0.12 | 0.52 | - | - |
| 64. p,m-Xylene | 0.24 | 1.04 | - | - |
| 65. o-Xylene | <0.05 | <0.22 | - | - |
| 66. Styrene | 0.20 | 0.85 | - | - |
| 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 | 0.08 | 0.39 | - | - |
| 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. : 2023-5007553 / 002-3 (Page 4 of 4)

Issued date : August 22, 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 : August 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).

** 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. : 2023-5007553 / 002-5 (Page 1 of 3)

Issued date : August 22, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction

MEASUREMENT DATE : August 3-4, 2023

MEASUREMENT LOCATION : Ban Aow Pradoo

MEASURED BY :

LABORATORY NAME : SGS (Thailand) Limited

| Location | TIME | August 3-4, 2023 | |
|----------------|-------------|------------------|----------|
| | | WD | WS (m/s) |
| Ban Aow Pradoo | 10:00-11:00 | W | 2.7 |
| | 11:00-12:00 | W | 2.2 |
| | 12:00-13:00 | WSW | 2.7 |
| | 13:00-14:00 | WSW | 3.1 |
| | 14:00-15:00 | WSW | 2.7 |
| | 15:00-16:00 | WSW | 2.2 |
| | 16:00-17:00 | WSW | 1.8 |
| | 17:00-18:00 | WSW | 1.3 |
| | 18:00-19:00 | WSW | 2.2 |
| | 19:00-20:00 | WSW | 2.2 |
| | 20:00-21:00 | WSW | 1.8 |
| | 21:00-22:00 | WSW | 2.7 |
| | 22:00-23:00 | WSW | 2.2 |
| | 23:00-00:00 | SW | 1.8 |
| | 00:00-01:00 | WSW | 2.2 |
| | 01:00-02:00 | WSW | 2.7 |
| | 02:00-03:00 | WSW | 2.7 |
| | 03:00-04:00 | WSW | 2.2 |
| | 04:00-05:00 | WSW | 2.2 |
| | 05:00-06:00 | W | 2.7 |
| | 06:00-07:00 | W | 2.7 |
| | 07:00-08:00 | WSW | 2.7 |
| | 08:00-09:00 | WSW | 3.1 |
| | 09:00-10:00 | WSW | 2.7 |

Measurement Method : - Wind speed and direction recording meter

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

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Report No. : 2023-5007553 / 002-5 (Page 2 of 3)

Issued date : August 22, 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 : August 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 | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | - | - | - | - |
| SSW | - | - | - | - | - |
| SW | - | 4.17 | - | - | - |
| WSW | - | 12.50 | 58.33 | 8.33 | - |
| W | - | - | 16.67 | - | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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Report No. : 2023-5007553 / 002-5 (Page 3 of 3)

Issued date : August 22, 2023

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

Analysis Report

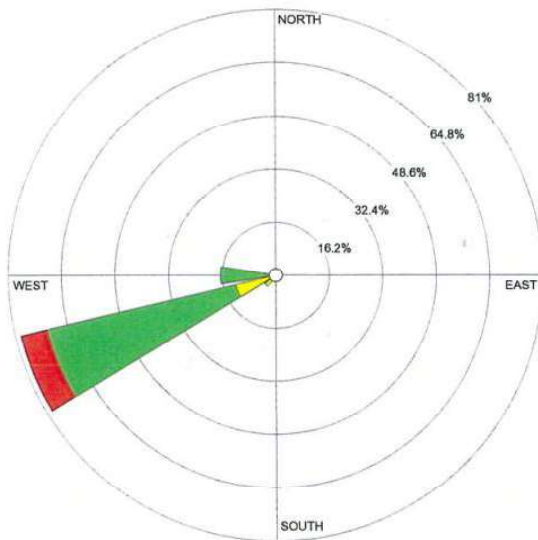
SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited

MEASUREMENT DATE : August 3-4, 2023

MEASURED BY :

WIND ROSE PLOT

สถานที่ตรวจวัด : บ้านอ่าวประดู่
วันที่ตรวจวัด : วันที่ 3-4 สิงหาคม พ.ศ. 2566



Wind Direction (Blowing from)

SGS (THAILAND) LIMITED

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E 266388

Report No. : 2023-5007553 / 002-6 (Page 1 of 3)

Issued date : August 22, 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 : August 3-4, 2023
MEASURED BY :

| Location | TIME | August 3-4, 2023 | |
|---------------------|-------------|------------------|----------|
| | | WD | WS (m/s) |
| New CO Plant of BTC | 09:00-10:00 | SW | 3.6 |
| | 10:00-11:00 | SW | 2.7 |
| | 11:00-12:00 | W | 2.2 |
| | 12:00-13:00 | WSW | 2.2 |
| | 13:00-14:00 | WSW | 2.2 |
| | 14:00-15:00 | SW | 3.1 |
| | 15:00-16:00 | WSW | 2.2 |
| | 16:00-17:00 | WSW | 1.8 |
| | 17:00-18:00 | WSW | 1.3 |
| | 18:00-19:00 | WSW | 1.8 |
| | 19:00-20:00 | S | 1.3 |
| | 20:00-21:00 | SW | 1.8 |
| | 21:00-22:00 | SW | 1.8 |
| | 22:00-23:00 | WSW | 2.2 |
| | 23:00-00:00 | WSW | 2.2 |
| | 00:00-01:00 | WSW | 2.2 |
| | 01:00-02:00 | WSW | 2.7 |
| | 02:00-03:00 | SW | 2.7 |
| | 03:00-04:00 | SW | 2.7 |
| | 04:00-05:00 | WSW | 2.2 |
| | 05:00-06:00 | SW | 2.2 |
| | 06:00-07:00 | WSW | 2.7 |
| | 07:00-08:00 | SW | 2.7 |
| | 08:00-09:00 | SW | 3.1 |

Measurement Method : - Wind speed and direction recording meter

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

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Report No. : 2023-5007553 / 002-6 (Page 2 of 3)

Issued date : August 22, 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 : August 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 | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | 4.17 | - | - | - |
| SSW | - | - | - | - | - |
| SW | - | 8.33 | 20.83 | 12.50 | - |
| WSW | - | 12.50 | 37.50 | - | - |
| W | - | - | 4.17 | - | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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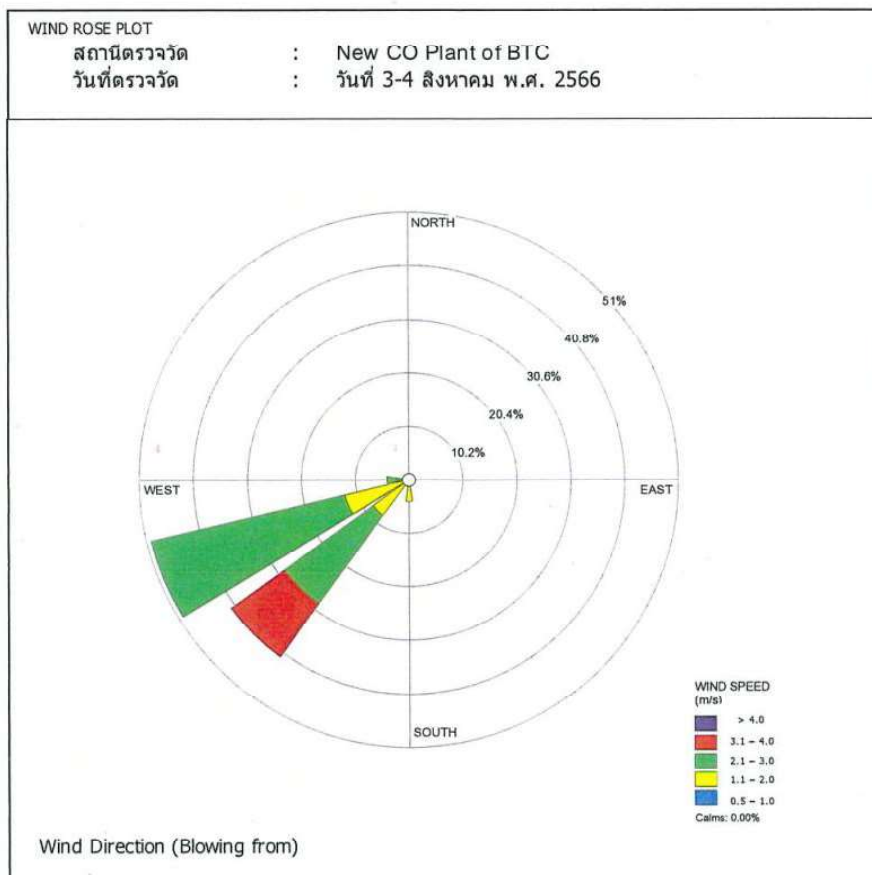
Report No. : 2023-5007553 / 002-6 (Page 3 of 3)

Issued date : August 22, 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 : August 3-4, 2023
MEASURED BY :



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Report No. : 2023-5007553 / 002-7 (Page 1 of 3)

Issued date : August 22, 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 : August 3-4, 2023
MEASURED BY :

| Location | TIME | August 3-4, 2023 | |
|-------------------------|-------------|------------------|----------|
| | | WD | WS (m/s) |
| Siam Yamato Steel Plant | 10:00-11:00 | W | 2.7 |
| | 11:00-12:00 | W | 3.1 |
| | 12:00-13:00 | WSW | 4.0 |
| | 13:00-14:00 | WSW | 4.0 |
| | 14:00-15:00 | WSW | 3.6 |
| | 15:00-16:00 | WSW | 4.0 |
| | 16:00-17:00 | WSW | 3.1 |
| | 17:00-18:00 | WSW | 3.1 |
| | 18:00-19:00 | W | 2.2 |
| | 19:00-20:00 | WSW | 2.7 |
| | 20:00-21:00 | WSW | 2.7 |
| | 21:00-22:00 | WSW | 4.0 |
| | 22:00-23:00 | WSW | 3.6 |
| | 23:00-00:00 | WSW | 4.0 |
| | 00:00-01:00 | WSW | 4.0 |
| | 01:00-02:00 | WSW | 4.5 |
| | 02:00-03:00 | W | 3.1 |
| | 03:00-04:00 | W | 3.6 |
| | 04:00-05:00 | WSW | 4.0 |
| | 05:00-06:00 | WSW | 3.6 |
| | 06:00-07:00 | WSW | 3.6 |
| | 07:00-08:00 | WSW | 3.1 |
| | 08:00-09:00 | WSW | 2.7 |
| | 09:00-10:00 | WSW | 3.1 |

Measurement Method : - Wind speed and direction recording meter

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

TY/JM/SV/SV

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Report No. : 2023-5007553 / 002-7 (Page 2 of 3)

Issued date : August 22, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : August 3-4, 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 | - | - | - | - | - |
| ENE | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | - | - | - | - |
| SSW | - | - | - | - | - |
| SW | - | - | - | - | - |
| WSW | - | - | 12.50 | 62.50 | 4.17 |
| W | - | - | 8.33 | 12.50 | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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Report No. : 2023-5007553 / 002-7 (Page 3 of 3)

Issued date : August 22, 2023

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

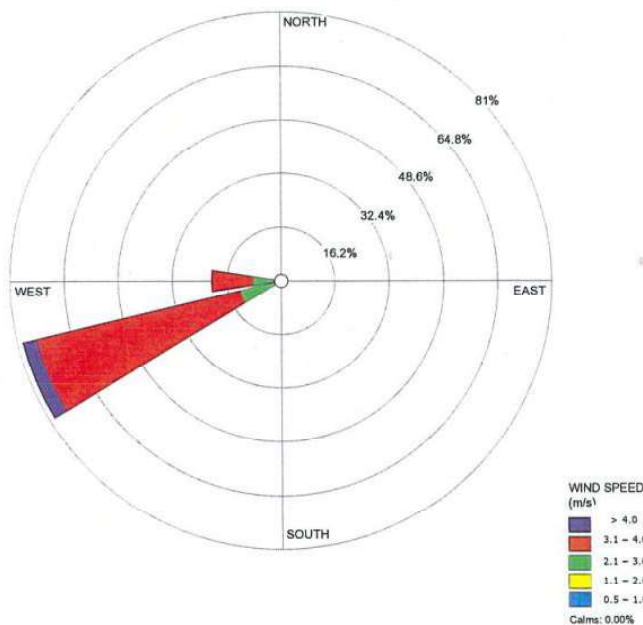
Analysis Report

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

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

WIND ROSE PLOT

สถานที่ตรวจวัด : Siam Yamato Steel Plant
วันที่ตรวจวัด : วันที่ 3-4 สิงหาคม พ.ศ. 2566



Wind Direction (Blowing from)

TY/JM/SV/SV

SGS (THAILAND) LIMITED



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E 266394

Report No. : 2023-5007772 / 002-1 (Page 1 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : September 4-5, 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 | 1.20 | 2.06 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.50 | 2.47 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.36 | 1.27 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.72 | 1.47 | - | - |
| 6. Isobutene | 3.37 | 7.72 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 1.52 | 3.35 | 5.3 | - |
| 9. Acetaldehyde | 1.92 | 3.45 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | <0.05 | <0.19 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.26 | 1.46 | - | - |
| 14. Pentane | 1.64 | 4.82 | - | - |
| 15. Ethanol | 2.45 | 4.62 | - | - |
| 16. Isoprene | 0.38 | 1.06 | - | - |
| 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 | 2.24 | 5.31 | - | - |
| 22. Iodomethane | <0.05 | <0.29 | - | - |
| 23. Carbondisulfide | <0.05 | <0.18 | - | 100 |
| 24. Isopropanol | <0.05 | <0.12 | - | - |
| 25. Acetonitrile | <0.05 | <0.08 | - | - |
| 26. Cyclopentane | <0.05 | <0.14 | - | - |
| 27. Dichloromethane | 0.34 | 1.18 | 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).

SGS (THAILAND) LIMITED

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E 267215

Report No. : 2023-5007772 / 002-1 (Page 2 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : September 4-5, 2023

SAMPLING LOCATION : Ban Aow Pradoo

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING BY :

| 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 | 0.20 | 0.69 | - | - |
| 40. 1,1,1-trichloroethane | <0.05 | <0.27 | - | - |
| 41. Carbon Tetrachloride | <0.05 | <0.31 | 150 | - |
| 42. Benzene | 0.32 | 1.02 | 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 | 0.60 | 2.26 | - | - |
| 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. : 2023-5007772 / 002-1 (Page 3 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : September 4-5, 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 (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 | 0.08 | 0.37 | - | - |
| 63. Ethylbenzene | 0.12 | 0.52 | - | - |
| 64. p,m-Xylene | 0.48 | 2.08 | - | - |
| 65. o-Xylene | <0.05 | <0.22 | - | - |
| 66. Styrene | 2.34 | 9.95 | - | - |
| 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 | 4.67 | 10.13 | 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. : 2023-5007772 / 002-1 (Page 4 of 4) Issued date : September 15, 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 : September 4-5, 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. : 2023-5007772 / 002-2 (Page 1 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : September 4-5, 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 | 0.92 | 1.58 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.52 | 2.57 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.36 | 1.27 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.72 | 1.47 | - | - |
| 6. Isobutene | 5.44 | 12.46 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 3.24 | 7.17 | 5.3 | - |
| 9. Acetaldehyde | 1.76 | 3.17 | 860 | - |
| 10. Methanol | <0.10 | <0.13 | - | - |
| 11. Bromomethane | 2.00 | 7.77 | 190 | - |
| 12. Ethyl Chloride | <0.05 | <0.13 | - | - |
| 13. Trichloromonofluoromethane | 0.24 | 1.35 | - | - |
| 14. Pentane | 0.36 | 1.06 | - | - |
| 15. Ethanol | 2.2 | 4.15 | - | - |
| 16. Isoprene | 0.12 | 0.33 | - | - |
| 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 | 2.12 | 5.04 | - | - |
| 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. : 2023-5007772 / 002-2 (Page 2 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE:** September 4-5, 2023

SAMPLING LOCATION : New CO Plant of BTC

LABORATORY NAME : SGS (Thailand) Limited

SAMPLING BY :

| Parameter | Analytical Value (avg-24 hr) | | Surveillant value* (µg/m³) | Standard** (µg/m³) |
|------------------------------|------------------------------|---------|-------------------------------|-----------------------|
| | (ppb) | (µg/m³) | | |
| VOCs (Cont.) | | | | |
| 29. Hexane | 1.28 | 4.51 | - | - |
| 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 | 0.16 | 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 | 2.28 | 7.28 | 7.6 | - |
| 43. 1,2-dichloroethane (EDC) | <0.05 | <0.20 | 48 | - |
| 44. Trichloroethylene | 0.20 | 1.07 | 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 | 1.44 | 5.43 | - | - |
| 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. : 2023-5007772 / 002-2 (Page 3 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : September 4-5, 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 | 10.00 | 43.42 | - | - |
| 65. o-Xylene | <0.05 | <0.22 | - | - |
| 66. Styrene | 2.72 | 11.59 | - | - |
| 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. : 2023-5007772 / 002-2 (Page 4 of 4) Issued date : September 15, 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 : September 4-5, 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. : 2023-5007772 / 002-3 (Page 1 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : September 4-5, 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 | | | | |
| 1. Propene | 0.92 | 1.58 | - | - |
| 2. Dichlorodifluoromethane (F-12) | 0.52 | 2.57 | - | - |
| 3. Chlorodifluoromethane (F-22) | 0.40 | 1.41 | - | - |
| 4. 1,2-dichlorotetrafluoroethane (F-114) | <0.05 | <0.35 | - | - |
| 5. Chloromethane | 0.72 | 1.47 | - | - |
| 6. Isobutene | 0.44 | 1.01 | - | - |
| 7. Vinyl Chloride | <0.05 | <0.13 | 20 | - |
| 8. 1,3-Butadiene (Butadiene) | 0.36 | 0.80 | 5.3 | - |
| 9. Acetaldehyde | 2.48 | 4.47 | 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 | 0.28 | 0.83 | - | - |
| 15. Ethanol | 0.7 | 1.32 | - | - |
| 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 | 3.52 | 8.36 | - | - |
| 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 | 0.24 | 0.83 | 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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Member of the SGS Group

Report No. : 2023-5007772 / 002-3 (Page 2 of 4) Issued date : September 15, 2023

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

CONTACT :

ADDRESS :

Analysis Report

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

SAMPLING DATE : September 4-5, 2023

SAMPLING LOCATION : Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

| Parameter | Analytical Value (avg-24 hr) | | Surveillant value* ($\mu\text{g}/\text{m}^3$) | Standard** ($\mu\text{g}/\text{m}^3$) |
|------------------------------|------------------------------|------------------------------|--|--|
| | (ppb) | ($\mu\text{g}/\text{m}^3$) | | |
| VOCs (Cont.) | | | | |
| 29. Hexane | 0.24 | 0.85 | - | - |
| 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 | <0.05 | <0.17 | - | - |
| 40. 1,1,1-trichloroethane | <0.05 | <0.27 | - | - |
| 41. Carbon Tetrachloride | <0.05 | <0.31 | 150 | - |
| 42. Benzene | 0.16 | 0.51 | 7.6 | - |
| 43. 1,2-dichloroethane (EDC) | 0.20 | 0.81 | 48 | - |
| 44. Trichloroethylene | 0.12 | 0.64 | 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 | 0.60 | 2.26 | - | - |
| 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. : 2023-5007772 / 002-3 (Page 3 of 4) Issued date : September 15, 2023

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

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) **SAMPLING DATE** : September 4-5, 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 | <0.05 | <0.20 | - | - |
| 61. 1,2-dibromoethane | <0.05 | <0.38 | 370 | - |
| 62. Chlorobenzene | <0.05 | <0.23 | - | - |
| 63. Ethylbenzene | 0.24 | 1.04 | - | - |
| 64. p,m-Xylene | 0.24 | 1.04 | - | - |
| 65. o-Xylene | 0.08 | 0.35 | - | - |
| 66. Styrene | 0.68 | 2.90 | - | - |
| 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 | 0.08 | 0.39 | - | - |
| 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. : 2023-5007772 / 002-3 (Page 4 of 4) Issued date : September 15, 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 : September 4-5, 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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Member of the SGS Group

Report No. : 2023-5007772 / 002-5 (Page 1 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 : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 4-5, 2023
MEASURED BY :

| Location | TIME | September 4-5, 2023 | |
|----------------|-------------|---------------------|----------|
| | | WD | WS (m/s) |
| Ban Aow Pradoo | 10:00-11:00 | SSW | 1.8 |
| | 11:00-12:00 | SSW | 1.8 |
| | 12:00-13:00 | SSW | 2.2 |
| | 13:00-14:00 | SSW | 2.2 |
| | 14:00-15:00 | SSW | 2.2 |
| | 15:00-16:00 | SSW | 1.8 |
| | 16:00-17:00 | SSW | 1.8 |
| | 17:00-18:00 | SSW | 1.8 |
| | 18:00-19:00 | SSW | 1.8 |
| | 19:00-20:00 | SSW | 1.8 |
| | 20:00-21:00 | W | 2.7 |
| | 21:00-22:00 | SSW | 1.8 |
| | 22:00-23:00 | W | 1.8 |
| | 23:00-00:00 | W | 3.6 |
| | 00:00-01:00 | W | 4.0 |
| | 01:00-02:00 | W | 4.0 |
| | 02:00-03:00 | WNW | 4.5 |
| | 03:00-04:00 | WNW | 4.0 |
| | 04:00-05:00 | WNW | 3.6 |
| | 05:00-06:00 | W | 3.1 |
| | 06:00-07:00 | W | 1.8 |
| | 07:00-08:00 | W | 2.7 |
| | 08:00-09:00 | SSW | 1.8 |
| | 09:00-10:00 | W | 2.7 |

Measurement Method : - Wind speed and direction recording meter

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

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Report No. : 2023-5007772 / 002-5 (Page 2 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 DATE : September 4-5, 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 | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | - | - | - | - |
| SSW | - | 37.50 | 12.50 | - | - |
| SW | - | - | - | - | - |
| WSW | - | - | - | - | - |
| W | - | 8.33 | 12.50 | 16.67 | - |
| WNW | - | - | - | 8.33 | 4.17 |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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E 267232

Report No. : 2023-5007772 / 002-5 (Page 3 of 3) Issued date : September 15, 2023

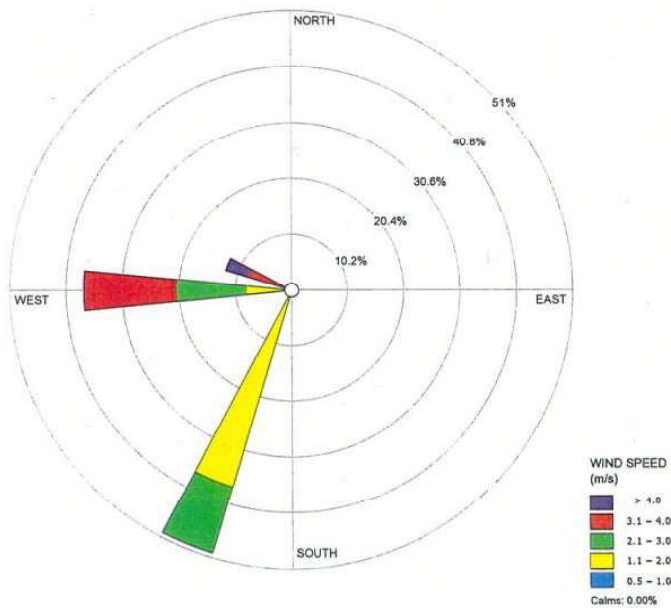
CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.
CONTACT :
ADDRESS :

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction
MEASUREMENT LOCATION : Ban Aow Pradoo
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 4-5, 2023
MEASURED BY :

WIND ROSE PLOT

สถานีตรวจวัด : บ้านอ่าวประดู่
วันที่ตรวจวัด : วันที่ 4-5 กันยายน พ.ศ. 2566



Wind Direction (Blowing from)

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E 267233

Report No. : 2023-5007772 / 002-6 (Page 1 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 : New CO Plant of BTC
LABORATORY NAME : SGS (Thailand) Limited
MEASUREMENT DATE : September 4-5, 2023
MEASURED BY :

| Location | TIME | September 4-5, 2023 | |
|---------------------|-------------|---------------------|----------|
| | | WD | WS (m/s) |
| New CO Plant of BTC | 09:00-10:00 | S | 3.1 |
| | 10:00-11:00 | SSW | 3.6 |
| | 11:00-12:00 | SSW | 2.7 |
| | 12:00-13:00 | SSW | 3.1 |
| | 13:00-14:00 | SW | 3.6 |
| | 14:00-15:00 | SSW | 3.6 |
| | 15:00-16:00 | SW | 3.6 |
| | 16:00-17:00 | SSW | 3.6 |
| | 17:00-18:00 | SSW | 3.1 |
| | 18:00-19:00 | SW | 3.1 |
| | 19:00-20:00 | SSW | 2.7 |
| | 20:00-21:00 | SE | 2.7 |
| | 21:00-22:00 | SSW | 2.7 |
| | 22:00-23:00 | SSW | 2.2 |
| | 23:00-00:00 | WSW | 3.1 |
| | 00:00-01:00 | WSW | 3.6 |
| | 01:00-02:00 | SW | 3.6 |
| | 02:00-03:00 | WSW | 4.0 |
| | 03:00-04:00 | S | 3.1 |
| | 04:00-05:00 | SSW | 3.1 |
| | 05:00-06:00 | SW | 2.7 |
| | 06:00-07:00 | SSW | 2.7 |
| | 07:00-08:00 | S | 2.2 |
| | 08:00-09:00 | SSW | 2.2 |

Measurement Method : - Wind speed and direction recording meter

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

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E 267234

Report No. : 2023-5007772 / 002-6 (Page 2 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 DATE : September 4-5, 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 | - | - | - | - | - |
| NE | - | - | - | - | - |
| ENE | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | 4.17 | - | - |
| SSE | - | - | - | - | - |
| S | - | - | 4.17 | 8.33 | - |
| SSW | - | - | 25.00 | 25.00 | - |
| SW | - | - | 4.17 | 16.67 | - |
| WSW | - | - | - | 12.50 | - |
| W | - | - | - | - | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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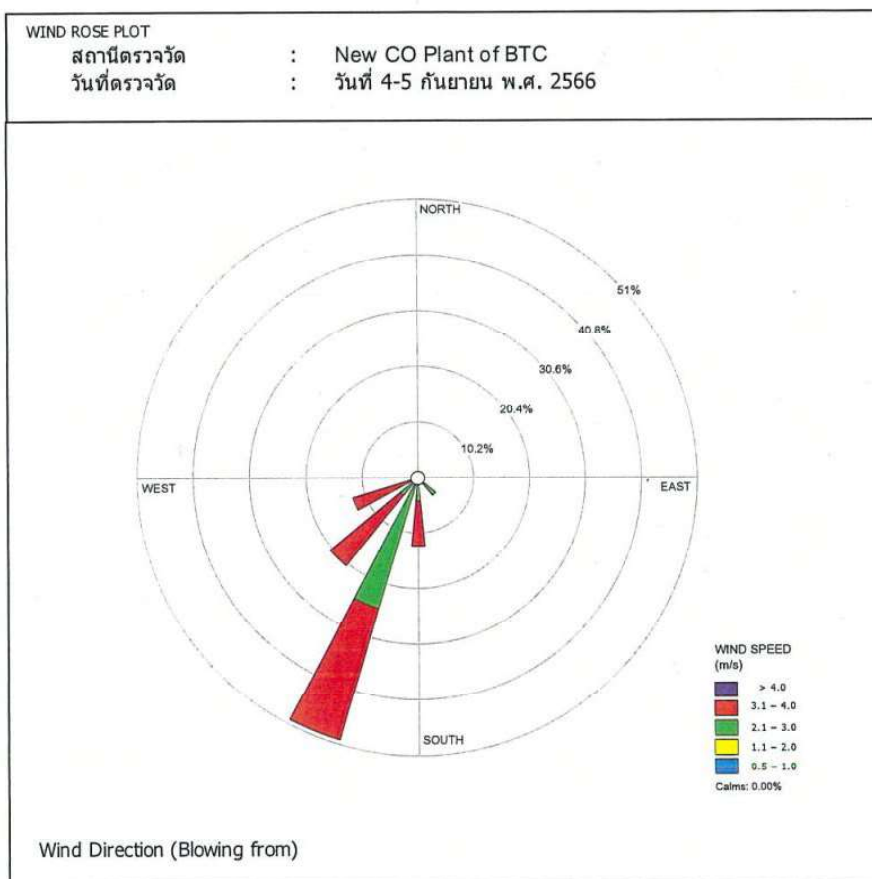
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Report No. : 2023-5007772 / 002-6 (Page 3 of 3) Issued date : September 15, 2023

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 : September 4-5, 2023
MEASURED BY :



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Report No. : 2023-5007772 / 002-7 (Page 1 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 :

| Location | TIME | September 4-5, 2023 | |
|-------------------------|-------------|---------------------|----------|
| | | WD | WS (m/s) |
| Siam Yamato Steel Plant | 09:00-10:00 | SW | 2.7 |
| | 10:00-11:00 | SSW | 2.7 |
| | 11:00-12:00 | SW | 3.1 |
| | 12:00-13:00 | SW | 3.1 |
| | 13:00-14:00 | WSW | 3.1 |
| | 14:00-15:00 | WSW | 3.6 |
| | 15:00-16:00 | WSW | 3.1 |
| | 16:00-17:00 | WSW | 3.1 |
| | 17:00-18:00 | WSW | 3.1 |
| | 18:00-19:00 | WSW | 3.1 |
| | 19:00-20:00 | WSW | 3.1 |
| | 20:00-21:00 | WSW | 4.0 |
| | 21:00-22:00 | WSW | 3.6 |
| | 22:00-23:00 | SW | 4.0 |
| | 23:00-00:00 | SW | 3.6 |
| | 00:00-01:00 | WSW | 3.6 |
| | 01:00-02:00 | SW | 4.0 |
| | 02:00-03:00 | W | 2.7 |
| | 03:00-04:00 | W | 1.8 |
| | 04:00-05:00 | WSW | 2.2 |
| | 05:00-06:00 | WSW | 2.7 |
| | 06:00-07:00 | WSW | 3.1 |
| | 07:00-08:00 | SW | 4.0 |
| | 08:00-09:00 | SW | 3.1 |

Measurement Method : - Wind speed and direction recording meter

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

TY/JM/SV/SV

SGS (THAILAND) LIMITED



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Report No. : 2023-5007772 / 002-7 (Page 2 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 DATE : September 4-5, 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 | - | - | - | - | - |
| ENE | - | - | - | - | - |
| E | - | - | - | - | - |
| ESE | - | - | - | - | - |
| SE | - | - | - | - | - |
| SSE | - | - | - | - | - |
| S | - | - | - | - | - |
| SSW | - | - | 4.17 | - | - |
| SW | - | - | 4.17 | 29.17 | - |
| WSW | - | - | 8.33 | 45.83 | - |
| W | - | 4.17 | 4.17 | - | - |
| WNW | - | - | - | - | - |
| NW | - | - | - | - | - |
| NNW | - | - | - | - | - |
| CALM | 0.00 | | | | |

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