

ภาคผนวก ค

ผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศจากแหล่งกำเนิด



Analysis / Test Report

TESTING
No.0042

Lot ID: 23106844
Date Received : Sep 16, 2023
Date Reported : Sep 25, 2023
Report Number: 2773578-1

Client: Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

Sample Number: 23106844-1
Sample Date: Sep 16, 2023
Sample Description: Emission from Stationary Source
Location: Heater A
Date Analysis Commenced: Sep 18, 2023
Condition of Sample: Extracted into three 2-L collection flasks, one filter paper placed in plastic petri dish, one 10-L air sampling bag and one amber plastic bottle, refrigerated

| Stack Description | | | | | | | | | |
|-----------------------------|---------------------|-------------------|-------------------|-----------|--------|-----------------------|---------------|--|------------------|
| Ambient Pressure | 755 | mmHg | Diameter | 0.60 | m | Oxygen | 7.6 | % | |
| Ambient Temperature | 32.0 | °C | Shape | Circle | | Carbon Dioxide | 7.6 | % | |
| Type of Process | Combustion | | Stack Temperature | 212 | °C | Gas Velocity | 4.9 | m/s | |
| Type of Fuel | Natural Gas | | Moisture | 11.52 | % | Flow Rate (Actual O2) | 2674 | Nm ³ /hr | |
| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
| Air Testing | | | | | | | | | |
| Carbon Monoxide * | 10:20 AM - 10:30 AM | ppm | - | 1.0 | 0.96 | 690 | - | United States Environmental Protection Agency, EPA Method 10 | Rayong |
| Oxides of Nitrogen * | 10:20 AM - 10:35 AM | ppm | - | 1.06 | 63.4 | 60.66 | 200 | 149 | Rayong |
| Sulfur dioxide * | 10:20 AM - 10:50 AM | ppm | - | 2.0 | <2.0 | <2.0 | 60 | - | Rayong |
| Total Suspended Particulate | 10:20 AM - 11:14 AM | mg/m ³ | - | 0.5 | 2.2 | 1.11 | 320 | 68 | Rayong |

Guideline:

1) Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
2) Emission Air Standard according to EIA study of PS-SPCL Plant, Approval Letter No. Tor Sor 1009/9/11032 dated Nov 6, B.E.2555.

Technical Management

Approved by

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Scientist (4)
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Approved by

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23106844
Date Received : Sep 16, 2023
Date Reported : Sep 25, 2023
Report Number: 2773578-1

Client: Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 2 of 2

Sample Number: 23106844-1
Sample Date: Sep 16, 2023
Sample Description: Emission from Stationary Source
Location: Heater A
Date Analysis Commenced: Sep 18, 2023
Condition of Sample: Extracted into three 2-L collection flasks, one filter paper placed in plastic petri dish, one 10-L air sampling bag and one amber plastic bottle, refrigerated

| Stack Description | | | | | | | | | |
|-------------------------------|---------------------|------|-------------------|-----------|--------|-----------------------|---------------|---------------------|------------------|
| Ambient Pressure | 755 | mmHg | Diameter | 0.50 | m | Oxygen | 7.6 | % | |
| Ambient Temperature | 32.0 | °C | Shape | Circle | | Carbon Dioxide | 7.6 | % | |
| Type of Process | Combustion | | Stack Temperature | 212 | °C | Gas Velocity | 4.9 | m/s | |
| Type of Fuel | Natural Gas | | Moisture | 11.52 | % | Flow Rate (Actual O2) | 2674 | Nm ³ /hr | |
| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
| Air Testing | | | | | | | | | |
| Carbon Monoxide * | 10:20 AM - 10:20 AM | g/s | - | - | 0.001 | - | - | Calculated | Rayong |
| Oxides of Nitrogen * | 10:20 AM - 10:35 AM | g/s | - | - | 0.085 | - | 0.37 | Calculated | Rayong |
| Sulfur dioxide * | 10:20 AM - 10:59 AM | g/s | - | - | <0.004 | - | - | Calculated | Rayong |
| Total Suspended Particulate * | 10:20 AM - 11:14 AM | g/s | - | - | 0.002 | - | 0.09 | Calculated | Rayong |

Guideline:

1) Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
2) Emission Air Standard according to EIA study of PS-SPCL Plant, Approval Letter No. Tor Sor 1009/9/11032 dated Nov 6, B.E.2555.

Sampled By : Suthaporn Thakorn

Items:

LOD : Limit of Detection

* : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Analysis: (1) manual * value not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Approved by

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ภาคผนวก ค-2

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING

No.0042

Lot ID: 23106842

Date Received : Sep 23, 2023

Date Reported : Sep 27, 2023

Report Number: 2773572-1

Client: Sam Polyethylene Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand

21150

P/O : 451415845

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Description Air Quality
Location อู่ทอพลาสติก (โรงงานอุตสาหกรรมพลาสติก) (GPS 477 0731964, 1403752)
Date Analysis Commenced Sep 25, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag

| Sample Number | Sampled Date | Total Suspended Particulate (mg/m3) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|---------------|-----------------------|-------------------------------------|-----------------------------|------------------------------|
| 23106842-1 | Sep 14 - Sep 15, 2023 | 0.026 | 756 | 30 |
| 23106842-2 | Sep 15 - Sep 16, 2023 | 0.034 | 756 | 31 |
| 23106842-3 | Sep 16 - Sep 17, 2023 | 0.027 | 756 | 30 |
| 23106842-4 | Sep 17 - Sep 18, 2023 | 0.018 | 756 | 31 |
| 23106842-5 | Sep 18 - Sep 19, 2023 | 0.032 | 756 | 30 |
| 23106842-6 | Sep 19 - Sep 20, 2023 | 0.100 | 756 | 31 |
| 23106842-7 | Sep 20 - Sep 21, 2023 | 0.081 | 756 | 30 |

Guideline 0.33
Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Siripavit Suwanmanit

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanitak

Thanita Kusurawong

Scientist (4)

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E-Reports: E-Report/Docs_1.pdf 1.4.3 (6/4/19)



Analysis / Test Report



TESTING

No.0042

Lot ID: 23106858

Date Received : Sep 23, 2023

Date Reported : Sep 30, 2023

Report Number: 2773591-1CB

Client: Sam Polyethylene Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand

21150

P/O : 451507360

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

Sample Description Air Quality
Location อู่ทอพลาสติก (โรงงานอุตสาหกรรมพลาสติก) (GPS 477 0735531, 1402769)
Date Analysis Commenced Sep 25, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

| Sample Number | Sampled Date | Total Suspended Particulate (mg/m3) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|---------------|-----------------------|-------------------------------------|-----------------------------|------------------------------|
| 23106858-1 | Sep 14 - Sep 15, 2023 | 0.028 | 756 | 30 |
| 23106858-2 | Sep 15 - Sep 16, 2023 | 0.026 | 756 | 31 |
| 23106858-3 | Sep 16 - Sep 17, 2023 | 0.020 | 756 | 30 |
| 23106858-4 | Sep 17 - Sep 18, 2023 | 0.026 | 756 | 31 |
| 23106858-5 | Sep 18 - Sep 19, 2023 | 0.026 | 756 | 30 |
| 23106858-6 | Sep 19 - Sep 20, 2023 | 0.089 | 756 | 31 |
| 23106858-7 | Sep 20 - Sep 21, 2023 | 0.038 | 756 | 30 |

Guideline 0.33
Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Siripavit Suwanmanit

Approved by

Thanitak

Thanita Kusurawong

Scientist (4)

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Analysis / Test Report



TESTING

No.0042

Lot ID: 23106861

Date Received : Sep 23, 2023

Date Reported : Sep 30, 2023

Report Number : 2773597-1C8

Client : Sam Polyethylene Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand

P/O : 4515073640

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

| Sample Description | Air Quality |
|-------------------------|---|
| Location | พื้นที่อุตสาหกรรม (อุตสาหกรรม) (GPS 479 073346, 1406705) |
| Date Analysis Commenced | Sep 25, 2023 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |

| Sample Number | Sampled Date | Total Suspended Particulate (mg/m3) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|---------------|-----------------------|-------------------------------------|-----------------------------|------------------------------|
| 23106861-1 | Sep 14 - Sep 15, 2023 | 0.033 | 756 | 30 |
| 23106861-2 | Sep 15 - Sep 16, 2023 | 0.036 | 756 | 31 |
| 23106861-3 | Sep 16 - Sep 17, 2023 | 0.025 | 756 | 30 |
| 23106861-4 | Sep 17 - Sep 18, 2023 | 0.037 | 756 | 31 |
| 23106861-5 | Sep 18 - Sep 19, 2023 | 0.029 | 756 | 30 |
| 23106861-6 | Sep 19 - Sep 20, 2023 | 0.049 | 756 | 31 |
| 23106861-7 | Sep 20 - Sep 21, 2023 | 0.033 | 756 | 30 |

Guideline

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Sipawit Suwanmarat

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Scientist (4)

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Analysis / Test Report

Lot ID: 23106840

Date Received : Sep 26, 2023

Date Reported : Sep 30, 2023

Report Number: 2773557-1

Client : Sam Polyethylene Co., Ltd.

8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand

P/O : 451418445

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut_PS (SPCL)

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| Sample Description | Air Quality |
|--------------------|---|
| Location | พื้นที่อุตสาหกรรม (อุตสาหกรรม) (GPS 479 0731964, 1403752) |
| Parameter | Nitrogen dioxide (ppm) |
| Measurement Date | Sep 14, 2023 - Sep 21, 2023 |
| Measurement by | Sipawit Suwanmarat |

| Time | 23106840-1 | 23106840-2 | 23106840-3 | 23106840-4 | 23106840-5 | 23106840-6 | 23106840-7 |
|------------------------|------------|------------|------------|------------|------------|------------|------------|
| 12:00 PM - 01:00 PM | 0.010 | 0.016 | 0.015 | 0.017 | 0.019 | 0.018 | 0.016 |
| 01:00 PM - 02:00 PM | 0.010 | 0.018 | 0.015 | 0.017 | 0.018 | 0.016 | 0.015 |
| 02:00 PM - 03:00 PM | 0.015 | 0.017 | 0.015 | 0.018 | 0.017 | 0.015 | 0.014 |
| 03:00 PM - 04:00 PM | 0.018 | 0.016 | 0.015 | 0.017 | 0.017 | 0.015 | 0.013 |
| 04:00 PM - 05:00 PM | 0.012 | 0.018 | 0.015 | 0.017 | 0.016 | 0.014 | 0.014 |
| 05:00 PM - 06:00 PM | 0.009 | 0.018 | 0.016 | 0.015 | 0.016 | 0.014 | 0.015 |
| 06:00 PM - 07:00 PM | 0.007 | 0.018 | 0.017 | 0.014 | 0.017 | 0.016 | 0.016 |
| 07:00 PM - 08:00 PM | 0.006 | 0.020 | 0.020 | 0.017 | 0.020 | 0.016 | 0.016 |
| 08:00 PM - 09:00 PM | 0.007 | 0.017 | 0.025 | 0.019 | 0.026 | 0.017 | 0.016 |
| 09:00 PM - 10:00 PM | 0.005 | 0.015 | 0.024 | 0.020 | 0.030 | 0.024 | 0.024 |
| 10:00 PM - 11:00 PM | 0.007 | 0.012 | 0.020 | 0.020 | 0.027 | 0.025 | 0.024 |
| 11:00 PM - 12:00 AM | 0.006 | 0.011 | 0.018 | 0.021 | 0.023 | 0.022 | 0.019 |
| 12:00 AM - 01:00 AM | 0.008 | 0.010 | 0.017 | 0.020 | 0.020 | 0.023 | 0.017 |
| 01:00 AM - 02:00 AM | 0.011 | 0.009 | 0.013 | 0.020 | 0.019 | 0.022 | 0.018 |
| 02:00 AM - 03:00 AM | 0.013 | 0.011 | 0.012 | 0.019 | 0.021 | 0.020 | 0.018 |
| 03:00 AM - 04:00 AM | 0.014 | 0.013 | 0.010 | 0.018 | 0.021 | 0.020 | 0.015 |
| 04:00 AM - 05:00 AM | 0.012 | 0.013 | 0.013 | 0.018 | 0.018 | 0.021 | 0.015 |
| 05:00 AM - 06:00 AM | 0.008 | 0.011 | 0.014 | 0.018 | 0.016 | 0.019 | 0.012 |
| 06:00 AM - 07:00 AM | 0.007 | 0.011 | 0.015 | 0.017 | 0.019 | 0.019 | 0.012 |
| 07:00 AM - 08:00 AM | 0.008 | 0.012 | 0.017 | 0.016 | 0.015 | 0.023 | 0.014 |
| 08:00 AM - 09:00 AM | 0.011 | 0.014 | 0.019 | 0.017 | 0.015 | 0.027 | 0.013 |
| 09:00 AM - 10:00 AM | 0.014 | 0.015 | 0.018 | 0.018 | 0.017 | 0.023 | 0.011 |
| 10:00 AM - 11:00 AM | 0.013 | 0.016 | 0.018 | 0.019 | 0.019 | 0.020 | 0.011 |
| 11:00 AM - 12:00 PM | 0.014 | 0.016 | 0.018 | 0.020 | 0.019 | 0.017 | 0.009 |
| Average | 0.010 | 0.014 | 0.017 | 0.018 | 0.019 | 0.019 | 0.015 |
| 1hr - Maximum | 0.018 | 0.020 | 0.025 | 0.021 | 0.030 | 0.027 | 0.024 |
| Standard 1hr - Average | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |

Standard : Notification of the National Environmental Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Oranwan R.

Uthairat Rakpong

Scientist (3)

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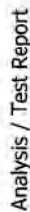
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Approved by _____

Orawan R.

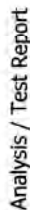
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Page: 3 of 11

| Sample Description Parameter | Air Quality | | | | | | | | | | | | | |
|---------------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Uttarakhand (GPS: 47° 07'35.46, 140° 6'05) | | | | | | | | | | | | | |
| | Nitrogen dioxide (ppm) | | | | | | | | | | | | | |
| | Sep 14, 2023 - Sep 21, 2023 | | | | | | | | | | | | | |
| | SIPAAV Summit-1 | | | | | | | | | | | | | |
| Measurement Date | 23106851-1 | | 23106851-2 | | 23106851-3 | | 23106851-4 | | 23106851-5 | | 23106851-6 | | 23106851-7 | |
| Measurement by | Sep 14, 2023 | Sep 15, 2023 | Sep 15, 2023 | Sep 16, 2023 | Sep 16, 2023 | Sep 17, 2023 | Sep 18, 2023 | Sep 18, 2023 | Sep 19, 2023 | Sep 19, 2023 | Sep 20, 2023 | Sep 20, 2023 | Sep 21, 2023 | Sep 21, 2023 |
| Time | | | | | | | | | | | | | | |
| 10:00 AM - 11:00 AM | 0.013 | 0.016 | 0.015 | 0.017 | 0.019 | 0.018 | 0.017 | 0.016 | 0.015 | 0.015 | 0.016 | 0.015 | 0.016 | 0.015 |
| 11:00 AM - 12:00 PM | 0.014 | 0.018 | 0.015 | 0.017 | 0.019 | 0.018 | 0.017 | 0.016 | 0.015 | 0.015 | 0.016 | 0.015 | 0.016 | 0.015 |
| 12:00 PM - 01:00 PM | 0.014 | 0.017 | 0.015 | 0.018 | 0.019 | 0.018 | 0.017 | 0.016 | 0.015 | 0.015 | 0.016 | 0.015 | 0.016 | 0.014 |
| 01:00 PM - 02:00 PM | 0.010 | 0.016 | 0.015 | 0.017 | 0.019 | 0.017 | 0.017 | 0.017 | 0.015 | 0.015 | 0.017 | 0.015 | 0.014 | 0.014 |
| 02:00 PM - 03:00 PM | 0.010 | 0.018 | 0.015 | 0.017 | 0.019 | 0.017 | 0.017 | 0.017 | 0.015 | 0.015 | 0.017 | 0.015 | 0.013 | 0.013 |
| 03:00 PM - 04:00 PM | 0.015 | 0.018 | 0.016 | 0.015 | 0.016 | 0.015 | 0.015 | 0.016 | 0.014 | 0.014 | 0.015 | 0.014 | 0.014 | 0.014 |
| 04:00 PM - 05:00 PM | 0.018 | 0.018 | 0.017 | 0.014 | 0.017 | 0.014 | 0.017 | 0.017 | 0.014 | 0.014 | 0.015 | 0.014 | 0.015 | 0.015 |
| 05:00 PM - 06:00 PM | 0.012 | 0.020 | 0.020 | 0.017 | 0.020 | 0.017 | 0.020 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 |
| 06:00 PM - 07:00 PM | 0.009 | 0.017 | 0.025 | 0.019 | 0.008 | 0.019 | 0.008 | 0.017 | 0.017 | 0.017 | 0.016 | 0.016 | 0.016 | 0.016 |
| 07:00 PM - 08:00 PM | 0.013 | 0.015 | 0.024 | 0.020 | 0.012 | 0.020 | 0.012 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 |
| 08:00 PM - 09:00 PM | 0.012 | 0.012 | 0.020 | 0.020 | 0.014 | 0.020 | 0.014 | 0.025 | 0.024 | 0.025 | 0.024 | 0.024 | 0.024 | 0.024 |
| 09:00 PM - 10:00 PM | 0.013 | 0.010 | 0.018 | 0.006 | 0.011 | 0.006 | 0.011 | 0.022 | 0.010 | 0.010 | 0.011 | 0.010 | 0.010 | 0.010 |
| 10:00 PM - 11:00 PM | 0.011 | 0.014 | 0.010 | 0.008 | 0.011 | 0.008 | 0.011 | 0.022 | 0.010 | 0.010 | 0.011 | 0.010 | 0.011 | 0.011 |
| 11:00 PM - 12:00 AM | 0.008 | 0.013 | 0.014 | 0.028 | 0.006 | 0.010 | 0.011 | 0.022 | 0.010 | 0.010 | 0.011 | 0.010 | 0.011 | 0.011 |
| 12:00 AM - 01:00 AM | 0.010 | 0.012 | 0.011 | 0.006 | 0.006 | 0.006 | 0.007 | 0.011 | 0.010 | 0.010 | 0.011 | 0.010 | 0.011 | 0.011 |
| 01:00 AM - 02:00 AM | 0.012 | 0.014 | 0.007 | 0.005 | 0.007 | 0.005 | 0.007 | 0.011 | 0.010 | 0.010 | 0.011 | 0.010 | 0.011 | 0.011 |
| 02:00 AM - 03:00 AM | 0.013 | 0.009 | 0.008 | 0.006 | 0.009 | 0.006 | 0.009 | 0.009 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 |
| 03:00 AM - 04:00 AM | 0.010 | 0.010 | 0.010 | 0.010 | 0.007 | 0.007 | 0.008 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| 04:00 AM - 05:00 AM | 0.008 | 0.008 | 0.008 | 0.007 | 0.008 | 0.007 | 0.008 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| 05:00 AM - 06:00 AM | 0.012 | 0.013 | 0.004 | 0.004 | 0.004 | 0.011 | 0.008 | 0.011 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 |
| 06:00 AM - 07:00 AM | 0.012 | 0.014 | 0.019 | 0.007 | 0.007 | 0.007 | 0.007 | 0.023 | 0.007 | 0.007 | 0.023 | 0.007 | 0.007 | 0.007 |
| 07:00 AM - 08:00 AM | 0.013 | 0.015 | 0.018 | 0.008 | 0.008 | 0.008 | 0.017 | 0.027 | 0.008 | 0.008 | 0.027 | 0.008 | 0.008 | 0.008 |
| 08:00 AM - 09:00 AM | 0.013 | 0.016 | 0.018 | 0.009 | 0.009 | 0.009 | 0.017 | 0.027 | 0.008 | 0.008 | 0.027 | 0.008 | 0.008 | 0.008 |
| 09:00 AM - 10:00 AM | 0.014 | 0.016 | 0.018 | 0.020 | 0.019 | 0.019 | 0.019 | 0.023 | 0.009 | 0.009 | 0.023 | 0.009 | 0.009 | 0.009 |
| 10:00 AM - 11:00 AM | 0.012 | 0.015 | 0.015 | 0.014 | 0.013 | 0.014 | 0.013 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| Average | 0.012 | 0.015 | 0.015 | 0.014 | 0.013 | 0.014 | 0.013 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| Min - Maximum | 0.018 | 0.020 | 0.025 | 0.020 | 0.020 | 0.020 | 0.020 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 |
| Standard Dev - Average | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |

| Standard | Reference Method |
|--|--|
| ± Notification of the National Environment Board No. 33, 2009 (B.E. 2552). | ± US EPA Method Part 50 App. F (Chemiluminescence) |

The above results are valid only for the unhydrochlorinated samples(s) as indicated in this report. The parts of this report or Certificate may be reproduced in any form without written consent from the Laboratory. A55 Laboratory Group (Institution) strongly recommends that this report be used as a reference only.

Approved by

Orawan R.

Drawan Rakyong
Scientist (3)

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100



Analysis / Test Report

Client : Sam Polydyne Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SCL)

Lot ID: 23106855
Date Received : Sep 26, 2023
Date Reported : Oct 03, 2023
Report Number : 2773588-1 CB

Sample Number : 23106855-1 to 7
Parameter : Wind Speed / Wind Direction
Location : Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
Sampling Date : Sep 14 - Sep 21, 2023
Sampling by : Sitaporn Suwanharat

| Time | Sep 18 - Sep 15, 2023 | | | Sep 15 - Sep 16, 2023 | | | Sep 16 - Sep 17, 2023 | | | Sep 17 - Sep 18, 2023 | | | Sep 18 - Sep 19, 2023 | | | Sep 19 - Sep 20, 2023 | | | Sep 20 - Sep 21, 2023 | | |
|---------------------|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|
| | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | |
| 11:00 AM - 12:00 PM | 1.4 | 29.0 | E | 0.3 | 157.0 | SSE | 1.3 | 60.0 | ESE | 2.1 | 118.0 | ESE | 1.0 | 76.0 | ESE | 0.6 | 106.0 | ESE | 0.6 | 125.0 | S |
| 12:00 PM - 01:00 PM | 0.2 | 0.0 | N | 0.3 | 72.0 | ENE | 1.0 | 0.0 | N | 0.7 | 101.0 | E | 0.9 | 108.0 | ESE | 0.4 | 105.0 | ESE | 0.3 | 174.0 | S |
| 01:00 PM - 02:00 PM | 0.3 | 90.0 | E | 1.0 | 170.0 | S | 1.0 | 102.0 | ESE | 2.3 | 111.0 | ESE | 0.5 | 108.0 | ESE | 0.3 | 97.0 | E | 0.2 | 125.0 | S |
| 02:00 PM - 03:00 PM | 1.1 | 115.0 | ESE | 1.2 | 96.0 | E | 1.9 | 90.0 | E | 0.8 | 93.0 | E | 0.3 | 87.0 | E | 0.8 | 125.0 | SE | 0.2 | 175.0 | S |
| 03:00 PM - 04:00 PM | 0.8 | 81.0 | E | 1.0 | 56.0 | ENE | 0.6 | 158.0 | SSE | 0.2 | — | — | 0.4 | 160.0 | SSE | 0.5 | 81.0 | E | 0.5 | 179.0 | S |
| 04:00 PM - 05:00 PM | 0.5 | 0.0 | N | 0.7 | 60.0 | ESE | 0.4 | 0.0 | N | 1.1 | 24.0 | ESE | 0.6 | 158.0 | SSE | 0.3 | 168.0 | SSE | 0.3 | 179.0 | S |
| 05:00 PM - 06:00 PM | 1.5 | 81.0 | E | 1.3 | 146.0 | SE | 0.3 | 149.0 | SSE | 0.4 | 109.0 | ESE | 0.4 | 109.0 | ESE | 0.4 | 106.0 | SSE | 0.6 | 179.0 | S |
| 06:00 PM - 07:00 PM | 0.5 | 206.0 | SSW | 1.7 | 80.0 | E | 1.0 | 55.0 | NE | 3.3 | 183.0 | ESE | 0.5 | 111.0 | ESE | 0.9 | 174.0 | S | 0.8 | 209.0 | SSW |
| 07:00 PM - 08:00 PM | 1.2 | 53.0 | NE | 3.2 | 76.0 | ENE | 0.5 | 0.0 | N | 1.3 | 6.0 | N | 0.2 | 117.0 | ESE | 0.5 | 151.0 | SSE | 0.3 | 227.0 | SW |
| 08:00 PM - 09:00 PM | 3.5 | 94.0 | E | 0.6 | 99.0 | E | 1.0 | 85.0 | E | 1.9 | 181.0 | E | 0.6 | 83.0 | E | 1.5 | 137.0 | SE | 1.8 | 0.0 | N |
| 09:00 PM - 10:00 PM | 1.0 | 112.0 | ESE | 1.0 | 0.0 | N | 2.0 | 92.0 | E | 0.5 | 130.0 | ESE | 2.9 | 115.0 | ESE | 0.1 | — | 0.6 | 55.0 | NE | |
| 10:00 PM - 11:00 PM | 2.5 | 78.0 | ENE | 0.5 | 131.0 | SE | 1.4 | 87.0 | E | 1.3 | 180.0 | SE | 1.3 | 88.0 | E | 1.5 | 128.0 | SE | 0.9 | 129.0 | SE |
| 11:00 PM - 12:00 AM | 5.5 | 102.0 | ESE | 1.9 | 144.0 | SE | 1.0 | 103.0 | ESE | 0.6 | 183.0 | ESE | 2.1 | 107.0 | ESE | 1.4 | 76.0 | ESE | 0.7 | 155.0 | SSE |
| 12:00 AM - 01:00 AM | 2.2 | 75.0 | ENE | 2.0 | 81.0 | E | 3.1 | 108.0 | ESE | 0.3 | 138.0 | SE | 0.7 | 109.0 | ESE | 0.3 | 119.0 | ESE | 2.2 | 0.0 | N |
| 01:00 AM - 02:00 AM | 2.8 | 106.0 | ESE | 1.3 | 121.0 | ESE | 1.9 | 127.0 | SE | 2.1 | 140.0 | ESE | 1.0 | 110.0 | ESE | 0.2 | — | 0.9 | 0.0 | N | |
| 02:00 AM - 03:00 AM | 0.9 | 103.0 | ESE | 4.0 | 58.0 | ENE | 0.8 | 124.0 | SE | 0.5 | 86.0 | E | 0.3 | 108.0 | ESE | 0.6 | 149.0 | SSE | 0.4 | 230.0 | SW |
| 03:00 AM - 04:00 AM | 0.4 | 110.0 | ESE | 3.9 | 99.0 | E | 0.3 | 109.0 | ESE | 2.2 | 140.0 | E | 0.7 | 134.0 | SE | 1.1 | 168.0 | ESE | 0.6 | 202.0 | SSW |
| 04:00 AM - 05:00 AM | 0.9 | 64.0 | ENE | 2.4 | 119.0 | ESE | 0.8 | 100.0 | E | 0.7 | 105.0 | ESE | 0.3 | 99.0 | E | 0.9 | 177.0 | S | 0.3 | 209.0 | SSW |
| 05:00 AM - 06:00 AM | 0.6 | 86.0 | E | 0.6 | 0.0 | N | 2.3 | 94.0 | E | 0.3 | 138.0 | SE | 0.3 | 108.0 | ESE | 0.5 | 152.0 | SSE | 0.4 | 213.0 | SSW |
| 06:00 AM - 07:00 AM | 1.6 | 137.0 | SE | 2.2 | 82.0 | E | 1.3 | 0.0 | N | 0.2 | 134.0 | SSE | 0.8 | 111.0 | ESE | 0.3 | 174.0 | S | 0.3 | 214.0 | SW |
| 07:00 AM - 08:00 AM | 1.2 | 0.0 | N | 2.8 | 109.0 | ESE | 0.8 | 127.0 | SE | 0.5 | 140.0 | ESE | 0.3 | 132.0 | SE | 0.6 | 175.0 | S | 0.5 | 213.0 | SSW |
| 08:00 AM - 09:00 AM | 0.3 | 183.0 | SSE | 1.3 | 90.0 | E | 1.3 | 127.0 | SE | 0.3 | 194.0 | SSW | 0.5 | 101.0 | E | 0.3 | 175.0 | S | 0.8 | 213.0 | SW |
| 09:00 AM - 10:00 AM | 0.6 | 0.0 | N | 2.2 | 112.0 | ESE | 4.3 | 105.0 | E | 0.6 | 179.0 | SE | 0.3 | 99.0 | E | 0.5 | 175.0 | S | 0.7 | 214.0 | SW |
| 10:00 AM - 11:00 AM | 0.5 | 191.0 | S | 0.3 | 104.0 | ESE | 2.0 | 92.0 | E | 0.9 | 111.0 | ESE | 0.3 | 112.0 | ESE | 0.4 | 175.0 | S | 0.7 | 0.0 | N |

Reference Method : Cup Anemometer & Anemized Aluminium Vane Method

The above results are valid only for the wind speed and direction measured at the site.
This report is for the use of the client only and is not to be used for any other purpose.
ALS Laboratory is not responsible for the accuracy of the results if the client provides incorrect information.

Approved by

Sanyuth Jitranont

Assistant General Manager

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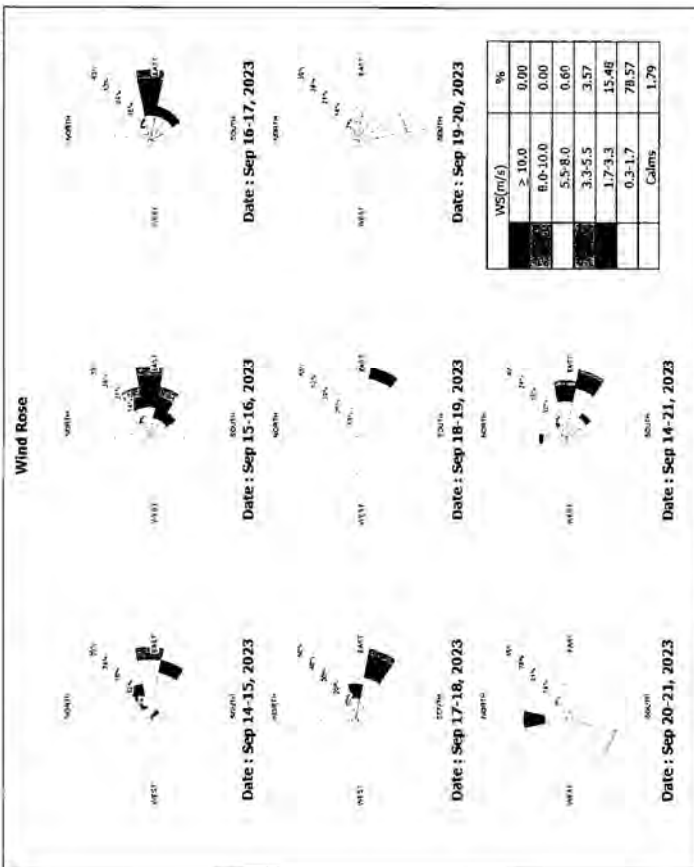
RIGHT SOLUTIONS



Analysis / Test Report

Client : Sam Polydyne Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SCL)

Lot ID: 23106855
Date Received : Sep 26, 2023
Date Reported : Oct 03, 2023
Report Number : 2773588-1 CB



Approved by

Sanyuth Jitranont

Assistant General Manager

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RIGHT SOLUTIONS



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
B, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Lot ID: 23106856

Date Received : Sep 26, 2023
Date Reported : Oct 03, 2023
Report Number : 2773590-1 C8

Page 1 of 2

Sample Number : 23106856-1 to 7

Parameter : Wind Speed / Wind Direction

Location : Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Sampling Date : Sep 14 - Sep 21, 2023

Sampling by : Siraporn Suwanmanee

| Time | Sep 14 - Sep 15, 2023 | | | Sep 15 - Sep 16, 2023 | | | Sep 16 - Sep 17, 2023 | | | Sep 17 - Sep 18, 2023 | | | Sep 18 - Sep 19, 2023 | | | Sep 19 - Sep 20, 2023 | | | Sep 20 - Sep 21, 2023 | | |
|---------------------|-----------------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|-------------|-----|
| | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | |
| 10:00 AM - 11:00 AM | 0.3 | 20.0 | NNE | 0.3 | 38.0 | NE | 0.9 | 190.0 | S | 2.0 | 89.0 | E | 1.2 | 244.0 | WSW | 0.5 | 174.0 | S | 0.3 | 118.0 | ESE |
| 11:00 AM - 12:00 PM | 0.3 | 92.0 | E | 0.8 | 52.0 | NE | 0.6 | 144.0 | SE | 1.7 | 1.0 | N | 0.6 | 198.0 | SSW | 0.6 | 210.0 | SSW | 0.5 | 58.0 | ENE |
| 12:00 PM - 01:00 PM | 0.5 | 11.0 | N | 0.3 | 222.0 | SW | 1.8 | 112.0 | ESE | 1.4 | 287.0 | SSW | 0.3 | 125.0 | SE | 0.7 | 218.0 | SW | 0.6 | 8.0 | N |
| 01:00 PM - 02:00 PM | 0.3 | 157.0 | SSE | 0.3 | 80.0 | E | 0.5 | 228.0 | SW | 0.6 | 217.0 | WSW | 0.5 | 166.0 | SSE | 0.5 | 222.0 | SW | 0.3 | 95.0 | E |
| 02:00 PM - 03:00 PM | 0.6 | 1.0 | N | 0.4 | 106.0 | ESE | 1.5 | 85.0 | E | 0.9 | 181.0 | E | 0.3 | 310 | NNE | 0.6 | 13.0 | NNE | 0.5 | 236.0 | SW |
| 03:00 PM - 04:00 PM | 0.5 | 206.0 | SSW | 0.7 | 157.0 | SSE | 2.3 | 175.0 | S | 1.0 | 288.0 | SSW | 1.2 | 9.0 | N | 0.3 | 300.0 | SSW | 1.2 | 97.0 | E |
| 04:00 PM - 05:00 PM | 0.7 | 185.0 | SSE | 0.6 | 66.0 | ENE | 0.3 | 116.0 | ESE | 0.5 | 217.0 | SW | 0.3 | 225.0 | WSW | 0.3 | 181.0 | S | 1.6 | 118.0 | ESE |
| 05:00 PM - 06:00 PM | 0.3 | 69.0 | ENE | 0.8 | 109.0 | ESE | 0.6 | 253.0 | WSW | 1.3 | 47.0 | NE | 0.6 | 30.0 | NNE | 1.0 | 192.0 | SSW | 0.3 | 82.0 | E |
| 06:00 PM - 07:00 PM | 0.3 | 245.0 | WSW | 0.6 | 123.0 | ESE | 0.5 | 234.0 | WSW | 1.9 | 81.0 | E | 0.9 | 229.0 | SW | 0.6 | 78.0 | ENE | 0.3 | 21.0 | NNE |
| 07:00 PM - 08:00 PM | 0.5 | 55.0 | NE | 0.5 | 83.0 | E | 0.3 | 96.0 | E | 1.2 | 211.0 | SW | 1.2 | 238.0 | WSW | 0.5 | 101.0 | E | 2.4 | 101.0 | E |
| 08:00 PM - 09:00 PM | 2.4 | 218.0 | SW | 0.9 | 238.0 | WSW | 0.3 | 244.0 | WSW | 1.5 | 188.0 | S | 0.3 | 244.0 | WSW | 0.3 | 188.0 | S | 1.7 | 105.0 | ESE |
| 09:00 PM - 10:00 PM | 1.3 | 17.0 | NNE | 5.3 | 37.0 | NE | 0.6 | 1.0 | N | 0.6 | 81.0 | ENE | 1.7 | 196.0 | SSW | 0.5 | 1.0 | N | 0.3 | 226.0 | SW |
| 10:00 PM - 11:00 PM | 0.6 | 248.0 | WSW | 2.1 | 107.0 | ESE | 1.3 | 0.0 | N | 1.2 | 151.0 | SSE | 1.3 | 103.0 | S | 0.3 | 185.0 | S | 0.3 | 38.0 | NE |
| 11:00 PM - 12:00 AM | 1.5 | 111.0 | ESE | 0.5 | 59.0 | ENE | 0.8 | 190.0 | S | 1.2 | 173.0 | S | 0.6 | 192.0 | SSW | 0.6 | 229.0 | SW | 0.8 | 26.0 | NNE |
| 12:00 AM - 01:00 AM | 3.4 | 127.0 | S | 1.2 | 107.0 | SSW | 1.4 | 43.0 | NE | 3.0 | 71.0 | ENE | 0.3 | 246.0 | WSW | 0.5 | 134.0 | SE | 0.6 | 215.0 | SW |
| 01:00 AM - 02:00 AM | 0.3 | 85.0 | E | 1.6 | 9.0 | N | 0.8 | 122.0 | ESE | 0.9 | 20.0 | NNE | 0.9 | 6.0 | N | 0.7 | 166.0 | SSE | 0.6 | 209.0 | SSW |
| 02:00 AM - 03:00 AM | 1.3 | 27.0 | NNE | 1.5 | 106.0 | ESE | 1.5 | 82.0 | E | 1.2 | 41.0 | NE | 1.3 | 35.0 | NE | 0.3 | 55.0 | NE | 0.6 | 217.0 | SW |
| 03:00 AM - 04:00 AM | 0.7 | 72.0 | ENE | 2.0 | 228.0 | SW | 0.3 | 241.0 | WSW | 2.3 | 244.0 | SSW | 0.6 | 147.0 | SSE | 0.4 | 193.0 | SSW | 0.3 | 237.0 | WSW |
| 04:00 AM - 05:00 AM | 2.2 | 176.0 | S | 2.8 | 249.0 | WSW | 0.4 | 212.0 | SSW | 1.6 | 255.0 | SW | 0.5 | 229.0 | SW | 1.2 | 113.0 | ESE | 1.3 | 35.0 | NE |
| 05:00 AM - 06:00 AM | 0.8 | 146.0 | SE | 0.5 | 16.0 | NNE | 1.2 | 46.0 | NE | 0.5 | 115.0 | ESE | 0.3 | 119.0 | ESE | 1.6 | 53.0 | NE | 1.6 | 78.0 | ENE |
| 06:00 AM - 07:00 AM | 1.6 | 247.0 | WSW | 1.8 | 130.0 | SE | 1.3 | 47.0 | NE | 0.3 | 9.0 | N | 0.3 | 9.0 | N | 0.6 | 175.0 | S | 0.3 | 129.0 | SE |
| 07:00 AM - 08:00 AM | 0.3 | 164.0 | SSE | 0.4 | 30.0 | NNE | 1.4 | 18.0 | NNE | 0.3 | 195.0 | SSW | 0.7 | 128.0 | SE | 0.5 | 23.0 | NNE | 0.5 | 58.0 | NE |
| 08:00 AM - 09:00 AM | 0.5 | 171.0 | S | 0.5 | 185.0 | S | 1.6 | 68.0 | ENE | 0.3 | 54.0 | NE | 1.3 | 108.0 | ESE | 0.3 | 33.0 | NNE | 0.5 | 187.0 | S |
| 09:00 AM - 10:00 AM | 0.6 | 87.0 | E | 1.4 | 129.0 | SE | 2.8 | 10.0 | N | 0.5 | 8.0 | N | 1.6 | 52.0 | NE | 0.3 | 91.0 | E | 0.6 | 163.0 | SSE |

Reference Method : Cup Anemometer & Anemometer Vane Method

The above results are valid only for the equipment used and the test method used. The results are not valid for other equipment or test methods. The results are not valid for other locations or conditions. The results are not valid for other purposes.

Approved by

Sanyuth Jitranont
Assistant General Manager

The above results are valid only for the equipment used and the test method used. The results are not valid for other equipment or test methods. The results are not valid for other locations or conditions. The results are not valid for other purposes.

Approved by

Sanyuth Jitranont
Assistant General Manager



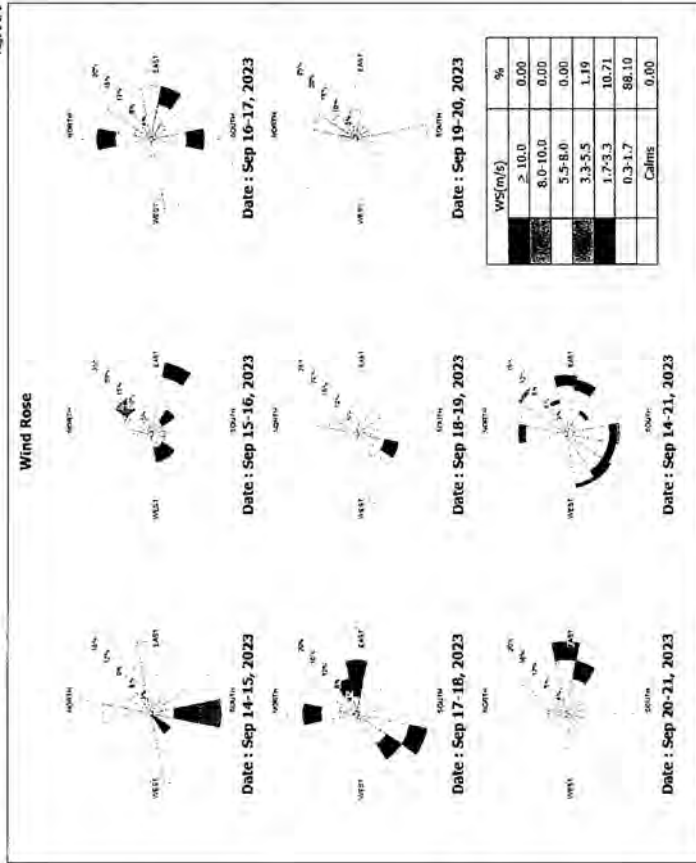
Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
B, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4515073640
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Lot ID: 23106856

Date Received : Sep 26, 2023
Date Reported : Oct 03, 2023
Report Number : 2773590-1 C8

Page 2 of 2



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Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756879-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 3

Sample Number : 2388622-1
Parameter : Noise (Leq 24 hrs.)
Location : Map Ta Phut Industrial Estate (GPS 479 0735038, 1405843)
Measurement Date : Aug 16 - Aug 17, 2023
Measurement by : Sakorn Jansakul
Sound Level meter : Serial No. 900071

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 54.3 | 73.2 | 50.8 |
| 03:00 PM - 04:00 PM | 53.5 | 64.0 | 50.8 |
| 04:00 PM - 05:00 PM | 55.2 | 69.0 | 52.4 |
| 05:00 PM - 06:00 PM | 55.2 | 64.8 | 52.5 |
| 06:00 PM - 07:00 PM | 56.4 | 65.9 | 53.5 |
| 07:00 PM - 08:00 PM | 53.1 | 62.8 | 50.9 |
| 08:00 PM - 09:00 PM | 51.8 | 66.3 | 48.7 |
| 09:00 PM - 10:00 PM | 51.3 | 73.8 | 46.8 |
| 10:00 PM - 11:00 PM | 49.4 | 65.2 | 46.9 |
| 11:00 PM - 12:00 PM | 50.0 | 66.1 | 47.5 |
| 12:00 AM - 01:00 AM | 51.6 | 76.5 | 47.4 |
| 01:00 AM - 02:00 AM | 49.9 | 64.3 | 46.6 |
| 02:00 AM - 03:00 AM | 47.4 | 57.9 | 45.7 |
| 03:00 AM - 04:00 AM | 47.3 | 57.4 | 45.3 |
| 04:00 AM - 05:00 AM | 47.3 | 58.2 | 45.5 |
| 05:00 AM - 06:00 AM | 52.8 | 62.1 | 49.4 |
| 06:00 AM - 07:00 AM | 53.1 | 63.1 | 50.9 |
| 07:00 AM - 08:00 AM | 56.7 | 79.4 | 52.5 |
| 08:00 AM - 09:00 AM | 53.8 | 67.9 | 51.3 |
| 09:00 AM - 10:00 AM | 53.4 | 71.8 | 50.7 |
| 10:00 AM - 11:00 AM | 53.8 | 63.6 | 50.9 |
| 11:00 AM - 12:00 PM | 53.8 | 66.9 | 50.9 |
| 12:00 PM - 01:00 PM | 55.3 | 65.6 | 52.3 |
| 01:00 PM - 02:00 PM | 58.0 | 72.5 | 54.6 |
| Leq Average 24 hrs. (dB(A)) | 53.6 | | |
| Lmax (dB(A)) | 79.4 | | |
| L90 (dB(A)) | 50.7 | | |
| L50 (dB(A)) | 57.8 | | |
| L5 (dB(A)) | 70 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. กรุงเทพมหานครและปริมณฑล มาตรฐานค่าระดับเสียง (พ.ร.บ. 2540) สำหรับอาคารพาณิชย์และโรงงานอุตสาหกรรม
2. กรุงเทพมหานครและปริมณฑล มาตรฐานค่าระดับเสียง (พ.ร.บ. 2540) สำหรับอาคารพาณิชย์และโรงงานอุตสาหกรรม

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : *Tharitat.* Approved by : *Supt S.*
Thamita Kulsurawong
Scientist (S)
Supt Salameh
Section Head

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RIGHT SOLUTIONS

781-311 EMAIL

S Report, Air Noise or IT (PMH)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756880-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 3

Sample Number : 2388622-2
Parameter : Noise (Leq 24 hrs.)
Location : Map Ta Phut Industrial Estate (GPS 479 0735038, 1405843)
Measurement Date : Aug 17 - Aug 18, 2023
Measurement by : Sakorn Jansakul
Sound Level meter : Serial No. 900071

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 58.0 | 65.9 | 55.4 |
| 03:00 PM - 04:00 PM | 57.6 | 68.8 | 55.0 |
| 04:00 PM - 05:00 PM | 59.9 | 79.3 | 57.2 |
| 05:00 PM - 06:00 PM | 57.2 | 65.7 | 55.6 |
| 06:00 PM - 07:00 PM | 57.5 | 71.3 | 55.1 |
| 07:00 PM - 08:00 PM | 55.6 | 71.5 | 53.1 |
| 08:00 PM - 09:00 PM | 57.9 | 80.2 | 53.2 |
| 09:00 PM - 10:00 PM | 52.7 | 67.6 | 50.4 |
| 10:00 PM - 11:00 PM | 53.4 | 72.6 | 50.0 |
| 11:00 PM - 12:00 PM | 52.0 | 69.5 | 49.3 |
| 12:00 AM - 01:00 AM | 49.9 | 61.5 | 48.4 |
| 01:00 AM - 02:00 AM | 49.8 | 63.8 | 48.4 |
| 02:00 AM - 03:00 AM | 49.7 | 60.6 | 48.7 |
| 03:00 AM - 04:00 AM | 49.7 | 62.1 | 48.7 |
| 04:00 AM - 05:00 AM | 49.6 | 62.7 | 48.4 |
| 05:00 AM - 06:00 AM | 52.7 | 62.6 | 50.7 |
| 06:00 AM - 07:00 AM | 53.5 | 60.8 | 51.8 |
| 07:00 AM - 08:00 AM | 54.6 | 65.0 | 52.0 |
| 08:00 AM - 09:00 AM | 52.3 | 64.0 | 49.6 |
| 09:00 AM - 10:00 AM | 51.2 | 64.9 | 48.1 |
| 10:00 AM - 11:00 AM | 51.6 | 65.1 | 48.8 |
| 11:00 AM - 12:00 PM | 54.4 | 76.7 | 48.9 |
| 12:00 PM - 01:00 PM | 54.3 | 80.7 | 49.2 |
| 01:00 PM - 02:00 PM | 51.5 | 65.7 | 48.0 |
| Leq Average 24 hrs. (dB(A)) | 58.7 | | |
| Lmax (dB(A)) | 80.7 | | |
| L90 (dB(A)) | 58.9 | | |
| L50 (dB(A)) | 70 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. กรุงเทพมหานครและปริมณฑล มาตรฐานค่าระดับเสียง (พ.ร.บ. 2540) สำหรับอาคารพาณิชย์และโรงงานอุตสาหกรรม
2. กรุงเทพมหานครและปริมณฑล มาตรฐานค่าระดับเสียง (พ.ร.บ. 2540) สำหรับอาคารพาณิชย์และโรงงานอุตสาหกรรม

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : *Tharitat.* Approved by : *Supt S.*
Thamita Kulsurawong
Scientist (S)
Supt Salameh
Section Head

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RIGHT SOLUTIONS

781-311 EMAIL

S Report, Air Noise or IT (PMH)



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2388622
Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756881-1

Page 1 of 1

Table with 4 columns: Parameter, Location, Measurement Date, Sound Level meter. Includes details for noise measurement at Map Ta Phut.

Table with 4 columns: Time, L90 (dB(A)), Lmax (dB(A)), L90 (dB(A)). Contains noise level data for various time intervals.

Leq Average 24 hrs. (dB(A))
Lmax (dB(A))
L90 (dB(A))
L90 (dB(A))
L90 (dB(A))
Standard (dB(A))
Reference Method : ISO 9966-1 and 1996-2
Standard : 1. Ultrasonic noise measurement standard 15 (M. 2540) (สำหรับเครื่องวัดเสียง)
2. Ultrasonic noise measurement standard 15 (M. 2540) (สำหรับเครื่องวัดเสียง)
Yarnu w.t. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management: Thanitak, Approved by: Supt S., Section Head: Supt S.

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Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2388622
Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756882-1

Page 1 of 1

Table with 4 columns: Parameter, Location, Measurement Date, Sound Level meter. Includes details for noise measurement at Map Ta Phut.

Table with 4 columns: Time, L90 (dB(A)), Lmax (dB(A)), L90 (dB(A)). Contains noise level data for various time intervals.

Leq Average 24 hrs. (dB(A))
Lmax (dB(A))
L90 (dB(A))
L90 (dB(A))
L90 (dB(A))
Standard (dB(A))
Reference Method : ISO 9966-1 and 1996-2
Standard : 1. Ultrasonic noise measurement standard 15 (M. 2540) (สำหรับเครื่องวัดเสียง)
2. Ultrasonic noise measurement standard 15 (M. 2540) (สำหรับเครื่องวัดเสียง)
Yarnu w.t. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management: Thanitak, Approved by: Supt S., Section Head: Supt S.

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756883-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_P5 (SPCL)

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 2388622-5 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150 |
| Measurement Date | Aug 20 - Aug 21, 2023 |
| Measurement by | Sakornin Jaraskey |
| Sound Level meter | Serial No. 900071 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 51.2 | 66.2 | 48.6 |
| 03:00 PM - 04:00 PM | 50.7 | 64.8 | 47.8 |
| 04:00 PM - 05:00 PM | 52.8 | 70.0 | 50.8 |
| 05:00 PM - 06:00 PM | 53.3 | 68.4 | 50.4 |
| 06:00 PM - 07:00 PM | 55.8 | 74.8 | 52.7 |
| 07:00 PM - 08:00 PM | 57.9 | 80.8 | 51.7 |
| 08:00 PM - 09:00 PM | 55.2 | 72.4 | 51.1 |
| 09:00 PM - 10:00 PM | 53.7 | 80.6 | 47.7 |
| 10:00 PM - 11:00 PM | 51.4 | 68.2 | 47.4 |
| 11:00 PM - 12:00 AM | 50.2 | 68.7 | 46.3 |
| 12:00 AM - 01:00 AM | 51.7 | 72.1 | 48.6 |
| 01:00 AM - 02:00 AM | 48.9 | 67.8 | 46.0 |
| 02:00 AM - 03:00 AM | 49.2 | 65.5 | 47.0 |
| 03:00 AM - 04:00 AM | 50.2 | 61.2 | 48.5 |
| 04:00 AM - 05:00 AM | 54.8 | 64.5 | 52.8 |
| 05:00 AM - 06:00 AM | 54.9 | 64.6 | 53.7 |
| 06:00 AM - 07:00 AM | 57.5 | 65.0 | 56.7 |
| 07:00 AM - 08:00 AM | 56.2 | 68.9 | 53.0 |
| 08:00 AM - 09:00 AM | 63.9 | 73.1 | 62.0 |
| 09:00 AM - 10:00 AM | 56.3 | 67.5 | 55.3 |
| 10:00 AM - 11:00 AM | 52.4 | 73.1 | 48.9 |
| 11:00 AM - 12:00 PM | 51.0 | 66.2 | 47.8 |
| 12:00 PM - 01:00 PM | 53.3 | 74.2 | 50.3 |
| 01:00 PM - 02:00 PM | 56.3 | 73.0 | 50.1 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 55.4 |
| Lmax (dB(A)) | 80.8 |
| L90 (dB(A)) | 50.0 |
| Lmin (dB(A)) | |

Standard (dB(A)) 70
Reference Method : ISO 996-1 and 1996-2
Standard : 1. ใช้เครื่องมือวัดและวิธีการวัดตามมาตรฐาน 15 (พ.ร.บ. 2540) สำหรับงานทางด้านเสียงและสั่นสะเทือน
2. ใช้เครื่องมือวัดและวิธีการวัดตามมาตรฐาน 15 (พ.ร.บ. 2540) สำหรับงานทางด้านเสียงและสั่นสะเทือน
3. ใช้เครื่องมือวัดและวิธีการวัดตามมาตรฐาน 15 (พ.ร.บ. 2540) สำหรับงานทางด้านเสียงและสั่นสะเทือน

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Signature

Approved by

Support Salameh
Section Head

Signature

Approved by

Support Salameh
Section Head

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RIGHT SOLUTIONS

778-3121 BNAOL

S. Vajiraporn, Lab. No. 0042 (11/11/14M)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756884-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_P5 (SPCL)

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 2388622-6 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150 |
| Measurement Date | Aug 21 - Aug 22, 2023 |
| Measurement by | Sakornin Jaraskey |
| Sound Level meter | Serial No. 900071 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 55.1 | 71.9 | 49.8 |
| 03:00 PM - 04:00 PM | 55.5 | 69.4 | 51.6 |
| 04:00 PM - 05:00 PM | 56.6 | 70.4 | 51.3 |
| 05:00 PM - 06:00 PM | 57.7 | 81.9 | 53.7 |
| 06:00 PM - 07:00 PM | 57.9 | 68.6 | 54.7 |
| 07:00 PM - 08:00 PM | 57.5 | 71.7 | 53.5 |
| 08:00 PM - 09:00 PM | 61.8 | 72.4 | 58.4 |
| 09:00 PM - 10:00 PM | 55.9 | 68.0 | 53.8 |
| 10:00 PM - 11:00 PM | 60.5 | 73.9 | 59.1 |
| 11:00 PM - 12:00 AM | 56.4 | 80.6 | 53.6 |
| 12:00 AM - 01:00 AM | 56.8 | 66.9 | 55.9 |
| 01:00 AM - 02:00 AM | 51.7 | 66.2 | 50.9 |
| 02:00 AM - 03:00 AM | 50.3 | 63.9 | 49.6 |
| 03:00 AM - 04:00 AM | 50.1 | 62.6 | 49.4 |
| 04:00 AM - 05:00 AM | 50.5 | 62.2 | 49.5 |
| 05:00 AM - 06:00 AM | 51.5 | 65.3 | 49.7 |
| 06:00 AM - 07:00 AM | 54.1 | 68.2 | 52.2 |
| 07:00 AM - 08:00 AM | 55.4 | 71.1 | 52.6 |
| 08:00 AM - 09:00 AM | 55.1 | 70.1 | 51.7 |
| 09:00 AM - 10:00 AM | 52.4 | 74.7 | 49.2 |
| 10:00 AM - 11:00 AM | 52.7 | 71.9 | 49.1 |
| 11:00 AM - 12:00 PM | 53.0 | 68.8 | 50.3 |
| 12:00 PM - 01:00 PM | 55.0 | 78.1 | 51.6 |
| 01:00 PM - 02:00 PM | 61.8 | 80.2 | 56.6 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 56.5 |
| Lmax (dB(A)) | 81.9 |
| L90 (dB(A)) | 51.7 |
| Lmin (dB(A)) | |

Standard (dB(A)) 70
Reference Method : ISO 996-1 and 1996-2
Standard : 1. ใช้เครื่องมือวัดและวิธีการวัดตามมาตรฐาน 15 (พ.ร.บ. 2540) สำหรับงานทางด้านเสียงและสั่นสะเทือน
2. ใช้เครื่องมือวัดและวิธีการวัดตามมาตรฐาน 15 (พ.ร.บ. 2540) สำหรับงานทางด้านเสียงและสั่นสะเทือน
3. ใช้เครื่องมือวัดและวิธีการวัดตามมาตรฐาน 15 (พ.ร.บ. 2540) สำหรับงานทางด้านเสียงและสั่นสะเทือน

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Signature

Approved by

Support Salameh
Section Head

Signature

Approved by

Support Salameh
Section Head

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RIGHT SOLUTIONS

778-3121 BNAOL

S. Vajiraporn, Lab. No. 0042 (11/11/14M)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756885-1



Client: Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 2388622-7 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | ถนนวัดตาปู (GPS: 47P 0235038, 1405843) |
| Measurement Date | Aug 22 - Aug 23, 2023 |
| Measurement by | Sakorn Jirakay |
| Sound Level meter | Serial No. 900071 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 60.8 | 75.2 | 55.5 |
| 03:00 PM - 04:00 PM | 63.8 | 82.3 | 54.0 |
| 04:00 PM - 05:00 PM | 62.3 | 80.2 | 55.1 |
| 05:00 PM - 06:00 PM | 54.1 | 74.6 | 51.8 |
| 06:00 PM - 07:00 PM | 54.3 | 72.1 | 51.1 |
| 07:00 PM - 08:00 PM | 52.8 | 69.0 | 50.8 |
| 08:00 PM - 09:00 PM | 52.8 | 73.3 | 50.5 |
| 09:00 PM - 10:00 PM | 52.2 | 68.2 | 49.6 |
| 10:00 PM - 11:00 PM | 51.9 | 67.7 | 49.8 |
| 11:00 PM - 12:00 AM | 53.5 | 78.9 | 50.1 |
| 12:00 AM - 01:00 AM | 53.3 | 78.6 | 50.7 |
| 01:00 AM - 02:00 AM | 58.5 | 88.3 | 50.7 |
| 02:00 AM - 03:00 AM | 51.0 | 66.8 | 49.1 |
| 03:00 AM - 04:00 AM | 50.9 | 66.8 | 49.2 |
| 04:00 AM - 05:00 AM | 51.7 | 63.1 | 49.5 |
| 05:00 AM - 06:00 AM | 52.4 | 63.5 | 50.1 |
| 06:00 AM - 07:00 AM | 54.9 | 86.6 | 52.1 |
| 07:00 AM - 08:00 AM | 53.0 | 71.1 | 51.1 |
| 08:00 AM - 09:00 AM | 53.3 | 68.9 | 50.5 |
| 09:00 AM - 10:00 AM | 52.5 | 74.9 | 50.1 |
| 10:00 AM - 11:00 AM | 49.2 | 62.6 | 49.2 |
| 11:00 AM - 12:00 PM | 59.4 | 89.4 | 51.7 |
| 12:00 PM - 01:00 PM | 53.0 | 71.3 | 50.7 |
| 01:00 PM - 02:00 PM | 56.7 | 66.7 | 49.5 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 56.1 |
| Lmax (dB(A)) | 82.6 |
| L90 (dB(A)) | 50.5 |
| Ldn (dB(A)) | 60.0 |
| Standard (dB(A)) | 70 |

Reference Method : ISO1996-1 and 1996-2
 Standard : 1. ปริมาณการจราจรทางบกประมาณ 15 (พ.ร. 2540) สำหรับกรุงเทพมหานครและปริมณฑล
 2. ปริมาณการจราจรทางบกประมาณ 15 (พ.ร. 2540) สำหรับกรุงเทพมหานครและปริมณฑล
 Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Tharitak, S.

Approved by

Support Silameth
Scientist (S)

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RIGHT SOLUTIONS

778-331/EN/ML 5-Vipaporn_LAB/Meo 5 (11/11/24)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756885-1



Client: Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 2388622-8 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | ถนนวัดตาปู (GPS: 47P 0235038, 1407699) |
| Measurement Date | Aug 16 - Aug 17, 2023 |
| Measurement by | Sakorn Jirakay |
| Sound Level meter | Serial No. 900072 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 53.7 | 72.2 | 48.5 |
| 03:00 PM - 04:00 PM | 53.5 | 87.2 | 48.0 |
| 04:00 PM - 05:00 PM | 54.8 | 73.5 | 50.5 |
| 05:00 PM - 06:00 PM | 54.3 | 78.2 | 50.5 |
| 06:00 PM - 07:00 PM | 54.8 | 74.6 | 50.1 |
| 07:00 PM - 08:00 PM | 53.7 | 77.8 | 48.9 |
| 08:00 PM - 09:00 PM | 54.4 | 78.5 | 47.8 |
| 09:00 PM - 10:00 PM | 52.1 | 76.7 | 47.3 |
| 10:00 PM - 11:00 PM | 52.1 | 75.8 | 46.3 |
| 11:00 PM - 12:00 AM | 50.7 | 68.7 | 46.6 |
| 12:00 AM - 01:00 AM | 52.9 | 76.7 | 45.8 |
| 01:00 AM - 02:00 AM | 50.1 | 63.7 | 44.7 |
| 02:00 AM - 03:00 AM | 47.4 | 68.7 | 43.5 |
| 03:00 AM - 04:00 AM | 50.4 | 68.7 | 43.2 |
| 04:00 AM - 05:00 AM | 50.9 | 68.3 | 45.5 |
| 05:00 AM - 06:00 AM | 55.3 | 72.0 | 50.1 |
| 06:00 AM - 07:00 AM | 56.0 | 75.8 | 50.7 |
| 07:00 AM - 08:00 AM | 54.5 | 70.1 | 49.8 |
| 08:00 AM - 09:00 AM | 51.9 | 69.3 | 47.7 |
| 09:00 AM - 10:00 AM | 55.4 | 74.8 | 51.0 |
| 10:00 AM - 11:00 AM | 55.9 | 69.4 | 52.0 |
| 11:00 AM - 12:00 PM | 54.7 | 69.9 | 50.5 |
| 12:00 PM - 01:00 PM | 55.4 | 70.6 | 51.3 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 53.8 |
| Lmax (dB(A)) | 76.5 |
| L90 (dB(A)) | 48.0 |
| Ldn (dB(A)) | 56.9 |
| Standard (dB(A)) | 70 |

Reference Method : ISO1996-1 and 1996-2
 Standard : 1. ปริมาณการจราจรทางบกประมาณ 15 (พ.ร. 2540) สำหรับกรุงเทพมหานครและปริมณฑล
 2. ปริมาณการจราจรทางบกประมาณ 15 (พ.ร. 2540) สำหรับกรุงเทพมหานครและปริมณฑล
 Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Tharitak, S.

Approved by

Support Silameth
Scientist (S)

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RIGHT SOLUTIONS

778-331/EN/ML 5-Vipaporn_LAB/Meo 5 (11/11/24)



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514159445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Sample Number : 2388622-9
Parameter : Noise (Leq 24 hrs.)
Location : ถนนสาย 1 (จุดวัดทางเข้าโรงงาน) (GPS 47P 0735531, 1402769)
Measurement Date : Aug 17 - Aug 18, 2023
Measurement by : Saknarin Jarasakay
Sound Level meter : Serial No. 900072

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 54.4 | 68.6 | 50.7 |
| 03:00 PM - 04:00 PM | 54.4 | 71.9 | 49.4 |
| 04:00 PM - 05:00 PM | 55.0 | 72.1 | 51.1 |
| 05:00 PM - 06:00 PM | 55.5 | 75.5 | 51.7 |
| 06:00 PM - 07:00 PM | 60.1 | 81.6 | 51.0 |
| 07:00 PM - 08:00 PM | 54.8 | 72.3 | 49.8 |
| 08:00 PM - 09:00 PM | 53.3 | 72.8 | 48.5 |
| 09:00 PM - 10:00 PM | 52.0 | 72.2 | 46.4 |
| 10:00 PM - 11:00 PM | 50.7 | 70.5 | 45.2 |
| 11:00 PM - 12:00 AM | 51.3 | 78.9 | 46.0 |
| 12:00 AM - 01:00 AM | 48.8 | 67.1 | 44.5 |
| 01:00 AM - 02:00 AM | 50.7 | 76.3 | 43.4 |
| 02:00 AM - 03:00 AM | 46.2 | 63.2 | 42.8 |
| 03:00 AM - 04:00 AM | 47.1 | 66.0 | 43.1 |
| 04:00 AM - 05:00 AM | 51.3 | 70.5 | 46.1 |
| 05:00 AM - 06:00 AM | 54.1 | 69.6 | 48.9 |
| 06:00 AM - 07:00 AM | 54.1 | 69.1 | 50.2 |
| 07:00 AM - 08:00 AM | 55.2 | 70.9 | 47.9 |
| 08:00 AM - 09:00 AM | 52.8 | 66.9 | 46.8 |
| 09:00 AM - 10:00 AM | 52.7 | 76.0 | 45.9 |
| 10:00 AM - 11:00 AM | 50.8 | 71.6 | 47.1 |
| 11:00 AM - 12:00 PM | 52.7 | 69.3 | 48.6 |
| 12:00 PM - 01:00 PM | 53.0 | 72.8 | 48.7 |
| 01:00 PM - 02:00 PM | 53.6 | 65.7 | 47.1 |

Leq Average 24 hrs. (dB(A)) : 53.6
Lmax (dB(A)) : 81.6
L90 (dB(A)) : 47.1
Ldn (dB(A)) : 70

Standard (dB(A)) : 70
Reference Method : ISO 1996-1 and 1996-2
Standard : 1. มาตรฐานการวัดและประเมินค่าระดับเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ศ. 2548) สำหรับโรงงานอุตสาหกรรม
2. มาตรฐานการวัดและประเมินค่าระดับเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ศ. 2548) สำหรับโรงงานอุตสาหกรรม

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Thairitak

Approved by : Supt S

Thairitak Kulsurwong
Scientist (4)

Supt S
Section Head

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RIGHT SOLUTIONS

3-Vipaporn, Air Nuae rd (11/11 AM)

778-31/1 PMU



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514159445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)

Sample Number : 2388622-10
Parameter : Noise (Leq 24 hrs.)
Location : ถนนสาย 1 (จุดวัดทางเข้าโรงงาน) (GPS 47P 0735531, 1402769)
Measurement Date : Aug 18 - Aug 19, 2023
Measurement by : Saknarin Jarasakay
Sound Level meter : Serial No. 900072

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 52.4 | 72.3 | 46.8 |
| 03:00 PM - 04:00 PM | 53.1 | 72.6 | 46.6 |
| 04:00 PM - 05:00 PM | 55.2 | 75.0 | 50.7 |
| 05:00 PM - 06:00 PM | 55.5 | 75.7 | 50.8 |
| 06:00 PM - 07:00 PM | 60.7 | 81.0 | 50.1 |
| 07:00 PM - 08:00 PM | 51.4 | 72.1 | 50.0 |
| 08:00 PM - 09:00 PM | 53.2 | 71.9 | 48.9 |
| 09:00 PM - 10:00 PM | 54.1 | 81.0 | 45.9 |
| 10:00 PM - 11:00 PM | 51.7 | 73.0 | 45.5 |
| 11:00 PM - 12:00 AM | 52.2 | 79.3 | 43.8 |
| 12:00 AM - 01:00 AM | 51.2 | 74.8 | 44.5 |
| 01:00 AM - 02:00 AM | 48.1 | 68.3 | 44.6 |
| 02:00 AM - 03:00 AM | 50.5 | 74.4 | 43.7 |
| 03:00 AM - 04:00 AM | 51.3 | 80.1 | 42.3 |
| 04:00 AM - 05:00 AM | 50.7 | 66.2 | 42.4 |
| 05:00 AM - 06:00 AM | 54.4 | 72.4 | 45.0 |
| 06:00 AM - 07:00 AM | 54.5 | 70.9 | 48.7 |
| 07:00 AM - 08:00 AM | 54.8 | 74.9 | 48.0 |
| 08:00 AM - 09:00 AM | 51.7 | 69.4 | 45.4 |
| 09:00 AM - 10:00 AM | 51.9 | 71.3 | 45.2 |
| 10:00 AM - 11:00 AM | 53.4 | 68.4 | 45.5 |
| 11:00 AM - 12:00 PM | 52.7 | 71.5 | 46.9 |
| 12:00 PM - 01:00 PM | 51.2 | 71.7 | 46.9 |
| 01:00 PM - 02:00 PM | 53.7 | 70.5 | 46.1 |

Leq Average 24 hrs. (dB(A)) : 53.7
Lmax (dB(A)) : 81.0
L90 (dB(A)) : 45.9
Ldn (dB(A)) : 115

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. มาตรฐานการวัดและประเมินค่าระดับเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ศ. 2548) สำหรับโรงงานอุตสาหกรรม
2. มาตรฐานการวัดและประเมินค่าระดับเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ศ. 2548) สำหรับโรงงานอุตสาหกรรม

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Thairitak

Approved by : Supt S

Thairitak Kulsurwong
Scientist (4)

Supt S
Section Head

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RIGHT SOLUTIONS

3-Vipaporn, Air Nuae rd (11/12 AM)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

Sample Number : 2388622-11
Parameter : Noise (Leq 24 hrs.)
Location : ฐานวัดเสียง (จุดวัดการจราจรทางบก) (GPS 479 0735531, 1402769)
Measurement Date : Aug 19 - Aug 20, 2023
Measurement by : Sananin Jarasakul
Sound Level meter : Serial No. 900072

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 52.4 | 72.3 | 46.8 |
| 03:00 PM - 04:00 PM | 52.1 | 72.6 | 46.6 |
| 04:00 PM - 05:00 PM | 55.2 | 75.0 | 50.7 |
| 05:00 PM - 06:00 PM | 55.5 | 75.7 | 50.8 |
| 06:00 PM - 07:00 PM | 60.2 | 81.0 | 55.1 |
| 07:00 PM - 08:00 PM | 53.4 | 72.1 | 48.0 |
| 08:00 PM - 09:00 PM | 53.2 | 71.9 | 48.0 |
| 09:00 PM - 10:00 PM | 54.1 | 73.0 | 48.5 |
| 10:00 PM - 11:00 PM | 51.7 | 69.3 | 45.5 |
| 11:00 PM - 12:00 AM | 52.3 | 70.3 | 46.8 |
| 12:00 AM - 01:00 AM | 51.2 | 74.8 | 44.5 |
| 01:00 AM - 02:00 AM | 48.1 | 68.3 | 44.6 |
| 02:00 AM - 03:00 AM | 50.5 | 74.4 | 43.2 |
| 03:00 AM - 04:00 AM | 51.3 | 80.1 | 42.3 |
| 04:00 AM - 05:00 AM | 50.7 | 69.2 | 42.4 |
| 05:00 AM - 06:00 AM | 54.4 | 72.4 | 45.0 |
| 06:00 AM - 07:00 AM | 54.5 | 70.9 | 48.7 |
| 07:00 AM - 08:00 AM | 54.8 | 74.9 | 48.0 |
| 08:00 AM - 09:00 AM | 51.7 | 69.4 | 45.4 |
| 09:00 AM - 10:00 AM | 51.9 | 71.3 | 45.2 |
| 10:00 AM - 11:00 AM | 50.8 | 68.4 | 45.5 |
| 11:00 AM - 12:00 PM | 52.4 | 71.5 | 46.9 |
| 12:00 PM - 01:00 PM | 52.7 | 71.7 | 46.9 |
| 01:00 PM - 02:00 PM | 51.2 | 70.5 | 46.1 |

Leq Average 24 hrs. (dB(A)) : 53.7

Lmax (dB(A)) : 81.0
L90 (dB(A)) : 45.9
Ltn (dB(A)) :

Standard (dB(A)) : 70
Reference Method : ISO1996-1 and 1996-2

Standard : 1. มีคนหรือยานพาหนะเคลื่อนที่ผ่านจุดวัดเสียงอยู่ตลอดเวลา (มีรถบรรทุกวิ่งผ่านจุดวัดเสียงอยู่ตลอดเวลา)
2. มีคนหรือยานพาหนะเคลื่อนที่ผ่านจุดวัดเสียงอยู่ตลอดเวลา (มีรถบรรทุกวิ่งผ่านจุดวัดเสียงอยู่ตลอดเวลา)

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Tharitak.
Approved by : Supt S.
Section Head : Supt Salamin

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RIGHT SOLUTIONS

791-31/THAI



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

Sample Number : 2388622-12
Parameter : Noise (Leq 24 hrs.)
Location : ฐานวัดเสียง (จุดวัดการจราจรทางบก) (GPS 479 0735531, 1402769)
Measurement Date : Aug 20 - Aug 21, 2023
Measurement by : Sananin Jarasakul
Sound Level meter : Serial No. 900072

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 52.3 | 66.8 | 46.1 |
| 03:00 PM - 04:00 PM | 52.1 | 72.2 | 45.9 |
| 04:00 PM - 05:00 PM | 55.3 | 76.4 | 49.5 |
| 05:00 PM - 06:00 PM | 60.4 | 83.0 | 50.3 |
| 06:00 PM - 07:00 PM | 54.4 | 71.0 | 49.5 |
| 07:00 PM - 08:00 PM | 53.8 | 71.5 | 48.9 |
| 08:00 PM - 09:00 PM | 52.9 | 71.6 | 48.9 |
| 09:00 PM - 10:00 PM | 53.1 | 74.3 | 47.7 |
| 10:00 PM - 11:00 PM | 52.2 | 71.3 | 47.4 |
| 11:00 PM - 12:00 AM | 51.0 | 67.6 | 46.5 |
| 12:00 AM - 01:00 AM | 51.5 | 76.0 | 44.4 |
| 01:00 AM - 02:00 AM | 50.6 | 76.0 | 43.0 |
| 02:00 AM - 03:00 AM | 48.9 | 73.6 | 42.8 |
| 03:00 AM - 04:00 AM | 50.9 | 76.6 | 41.7 |
| 04:00 AM - 05:00 AM | 52.7 | 76.0 | 42.0 |
| 05:00 AM - 06:00 AM | 52.8 | 72.0 | 42.6 |
| 06:00 AM - 07:00 AM | 53.6 | 77.0 | 46.3 |
| 07:00 AM - 08:00 AM | 54.4 | 73.2 | 47.6 |
| 08:00 AM - 09:00 AM | 54.8 | 83.8 | 47.4 |
| 09:00 AM - 10:00 AM | 62.9 | 73.9 | 54.5 |
| 10:00 AM - 11:00 AM | 54.5 | 72.3 | 48.8 |
| 11:00 AM - 12:00 PM | 53.6 | 72.4 | 47.7 |
| 12:00 PM - 01:00 PM | 54.2 | 74.1 | 49.4 |
| 01:00 PM - 02:00 PM | 55.3 | 70.5 | 50.6 |

Leq Average 24 hrs. (dB(A)) : 55.0

Lmax (dB(A)) : 83.8
L90 (dB(A)) : 47.4
Ltn (dB(A)) :

Standard (dB(A)) : 70
Reference Method : ISO1996-1 and 1996-2

Standard : 1. มีคนหรือยานพาหนะเคลื่อนที่ผ่านจุดวัดเสียงอยู่ตลอดเวลา (มีรถบรรทุกวิ่งผ่านจุดวัดเสียงอยู่ตลอดเวลา)
2. มีคนหรือยานพาหนะเคลื่อนที่ผ่านจุดวัดเสียงอยู่ตลอดเวลา (มีรถบรรทุกวิ่งผ่านจุดวัดเสียงอยู่ตลอดเวลา)

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Tharitak.
Approved by : Supt S.
Section Head : Supt Salamin

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RIGHT SOLUTIONS

791-31/THAI



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756891-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SCL)

Page 1 of 1

Sample Number : 2388622-13
Parameter : Noise (Leq 24 hrs.)
Location : ทุ่งหญ้า (ทุ่งหญ้าอุตสาหกรรม) (GPS 479 075531, 1402769)
Measurement Date : Aug 21 - Aug 22, 2023
Measurement by : Saknarin Jansakay
Sound Level meter : Serial No. 900072

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 53.2 | 72.0 | 47.4 |
| 03:00 PM - 04:00 PM | 54.6 | 73.6 | 49.1 |
| 04:00 PM - 05:00 PM | 55.1 | 72.8 | 49.8 |
| 05:00 PM - 06:00 PM | 55.7 | 76.9 | 49.8 |
| 06:00 PM - 07:00 PM | 55.7 | 75.0 | 50.4 |
| 07:00 PM - 08:00 PM | 56.2 | 83.0 | 49.3 |
| 08:00 PM - 09:00 PM | 56.1 | 78.8 | 48.9 |
| 09:00 PM - 10:00 PM | 52.5 | 77.0 | 46.4 |
| 10:00 PM - 11:00 PM | 51.6 | 73.4 | 44.2 |
| 11:00 PM - 12:00 AM | 48.9 | 76.6 | 44.7 |
| 12:00 AM - 01:00 AM | 48.7 | 67.8 | 45.1 |
| 01:00 AM - 02:00 AM | 48.8 | 67.5 | 45.4 |
| 02:00 AM - 03:00 AM | 47.6 | 67.6 | 44.2 |
| 03:00 AM - 04:00 AM | 48.2 | 66.6 | 42.6 |
| 04:00 AM - 05:00 AM | 48.2 | 68.3 | 42.6 |
| 05:00 AM - 06:00 AM | 53.7 | 68.7 | 49.8 |
| 06:00 AM - 07:00 AM | 56.4 | 75.3 | 53.6 |
| 07:00 AM - 08:00 AM | 55.0 | 67.1 | 51.0 |
| 08:00 AM - 09:00 AM | 57.7 | 68.2 | 53.5 |
| 09:00 AM - 10:00 AM | 55.0 | 68.2 | 51.4 |
| 10:00 AM - 11:00 AM | 53.8 | 72.7 | 46.1 |
| 11:00 AM - 12:00 PM | 52.6 | 76.8 | 46.1 |
| 12:00 PM - 01:00 PM | 55.9 | 69.7 | 48.0 |
| 01:00 PM - 02:00 PM | 55.3 | 76.3 | 47.8 |
| Leq Average 24 hrs. (dB(A)) | 54.1 | | |
| Lmax (dB(A)) | 83.0 | | |
| L90 (dB(A)) | | | 47.8 |
| Lmin (dB(A)) | 58.7 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) มาตรฐานการวัดและประเมินค่าเสียงในชุมชน
2. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) มาตรฐานการวัดและประเมินค่าเสียงในชุมชน

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : *Tharitat.*
Thaniya Kulurawong
Scientist (A)
Approved by : *Supt S.*
Supt Sakornch
Section Head

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RIGHT SOLUTIONS

S. Vasson, JAP. No. 0042 p1 (11/18/07)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756892-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SCL)

Page 1 of 1

Sample Number : 2388622-14
Parameter : Noise (Leq 24 hrs.)
Location : ทุ่งหญ้า (ทุ่งหญ้าอุตสาหกรรม) (GPS 479 075531, 1402769)
Measurement Date : Aug 22 - Aug 23, 2023
Measurement by : Saknarin Jansakay
Sound Level meter : Serial No. 900072

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 02:00 PM - 03:00 PM | 54.3 | 68.3 | 48.4 |
| 03:00 PM - 04:00 PM | 59.9 | 81.6 | 51.9 |
| 04:00 PM - 05:00 PM | 59.5 | 81.1 | 54.2 |
| 05:00 PM - 06:00 PM | 56.0 | 69.5 | 52.1 |
| 06:00 PM - 07:00 PM | 54.4 | 70.8 | 49.5 |
| 07:00 PM - 08:00 PM | 53.7 | 71.8 | 49.7 |
| 08:00 PM - 09:00 PM | 60.8 | 77.2 | 58.0 |
| 09:00 PM - 10:00 PM | 53.6 | 71.9 | 50.3 |
| 10:00 PM - 11:00 PM | 55.0 | 67.8 | 52.3 |
| 11:00 PM - 12:00 AM | 61.0 | 76.9 | 58.6 |
| 12:00 AM - 01:00 AM | 62.4 | 68.7 | 61.1 |
| 01:00 AM - 02:00 AM | 61.8 | 66.4 | 59.6 |
| 02:00 AM - 03:00 AM | 64.2 | 74.4 | 60.9 |
| 03:00 AM - 04:00 AM | 65.6 | 70.5 | 64.1 |
| 04:00 AM - 05:00 AM | 65.8 | 73.9 | 64.3 |
| 05:00 AM - 06:00 AM | 61.7 | 70.5 | 57.0 |
| 06:00 AM - 07:00 AM | 56.0 | 73.8 | 50.3 |
| 07:00 AM - 08:00 AM | 56.5 | 73.3 | 51.6 |
| 08:00 AM - 09:00 AM | 55.8 | 74.0 | 51.8 |
| 09:00 AM - 10:00 AM | 55.7 | 71.1 | 51.5 |
| 10:00 AM - 11:00 AM | 56.1 | 78.6 | 50.5 |
| 11:00 AM - 12:00 PM | 52.8 | 69.2 | 47.1 |
| 12:00 PM - 01:00 PM | 58.6 | 75.4 | 48.3 |
| 01:00 PM - 02:00 PM | 52.3 | 71.1 | 47.2 |
| Leq Average 24 hrs. (dB(A)) | 60.0 | | |
| Lmax (dB(A)) | | 81.6 | |
| L90 (dB(A)) | | | 51.8 |
| Lmin (dB(A)) | 68.5 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) มาตรฐานการวัดและประเมินค่าเสียงในชุมชน
2. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) มาตรฐานการวัดและประเมินค่าเสียงในชุมชน

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : *Tharitat.*
Thaniya Kulurawong
Scientist (A)
Approved by : *Supt S.*
Supt Sakornch
Section Head

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RIGHT SOLUTIONS

S. Vasson, JAP. No. 0042 p1 (11/18/07)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2755893-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 2388622-15 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | Substation Number (GPS 47P 0733721, 1404233) |
| Measurement Date | Aug 16 - Aug 17, 2023 |
| Measurement by | Sakorn Jiraksky |
| Sound Level meter | Serial No. 709746 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 61.9 | 67.0 | 61.5 |
| 11:00 AM - 12:00 PM | 62.7 | 75.4 | 61.4 |
| 12:00 PM - 01:00 PM | 61.6 | 71.3 | 61.2 |
| 01:00 PM - 02:00 PM | 61.5 | 67.7 | 61.1 |
| 02:00 PM - 03:00 PM | 61.7 | 68.5 | 61.1 |
| 03:00 PM - 04:00 PM | 61.8 | 65.6 | 61.3 |
| 04:00 PM - 05:00 PM | 62.3 | 71.3 | 61.8 |
| 05:00 PM - 06:00 PM | 62.4 | 67.1 | 61.9 |
| 06:00 PM - 07:00 PM | 62.3 | 66.4 | 62.0 |
| 07:00 PM - 08:00 PM | 62.0 | 64.9 | 61.7 |
| 08:00 PM - 09:00 PM | 61.8 | 66.3 | 61.6 |
| 09:00 PM - 10:00 PM | 61.9 | 66.1 | 61.6 |
| 10:00 PM - 11:00 PM | 62.1 | 64.5 | 61.8 |
| 11:00 PM - 12:00 AM | 62.5 | 65.8 | 62.3 |
| 12:00 AM - 01:00 AM | 62.8 | 65.7 | 62.1 |
| 01:00 AM - 02:00 AM | 62.6 | 64.5 | 62.2 |
| 02:00 AM - 03:00 AM | 62.2 | 64.1 | 61.9 |
| 03:00 AM - 04:00 AM | 62.1 | 63.4 | 61.9 |
| 04:00 AM - 05:00 AM | 62.0 | 65.1 | 61.8 |
| 05:00 AM - 06:00 AM | 62.3 | 64.3 | 62.0 |
| 06:00 AM - 07:00 AM | 62.5 | 64.1 | 62.2 |
| 07:00 AM - 08:00 AM | 62.1 | 67.1 | 62.6 |
| 08:00 AM - 09:00 AM | 63.1 | 68.7 | 62.6 |
| 09:00 AM - 10:00 AM | 62.9 | 60.8 | 62.0 |
| Leq Average 24 hrs. (dB(A)) | 62.3 | | |
| Lmax (dB(A)) | 80.8 | | |
| L90 (dB(A)) | 61.8 | | |
| Ldn (dB(A)) | 70 | | |
| Standard (dB(A)) | 115 | | |

Reference Method : ISO1996-1 and 1996-2
Standard : 1. กรมควบคุมมลพิษ (พ.ร.บ. 2560) สำหรับโรงงานอุตสาหกรรม
2. กรมควบคุมมลพิษ (พ.ร.บ. 2560) สำหรับโรงงานอุตสาหกรรม

Technical Management
Tharitat

Approved by

Supt S

Supot Suameth
Section Head

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RIGHT SOLUTIONS

7781-31/ ENAIL

S. Wipassit, Air Noise on (11/18/24)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2755894-1



Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 2388622-16 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | Substation Number (GPS 47P 0733721, 1404233) |
| Measurement Date | Aug 17 - Aug 18, 2023 |
| Measurement by | Sakorn Jiraksky |
| Sound Level meter | Serial No. 709746 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 62.6 | 66.2 | 62.2 |
| 11:00 AM - 12:00 PM | 62.9 | 74.5 | 62.4 |
| 12:00 PM - 01:00 PM | 63.1 | 74.7 | 62.6 |
| 01:00 PM - 02:00 PM | 62.9 | 66.0 | 62.4 |
| 02:00 PM - 03:00 PM | 62.6 | 67.4 | 62.1 |
| 03:00 PM - 04:00 PM | 62.4 | 68.5 | 62.0 |
| 04:00 PM - 05:00 PM | 62.8 | 68.1 | 62.4 |
| 05:00 PM - 06:00 PM | 63.0 | 66.9 | 62.6 |
| 06:00 PM - 07:00 PM | 63.4 | 77.3 | 62.7 |
| 07:00 PM - 08:00 PM | 63.0 | 78.6 | 62.5 |
| 08:00 PM - 09:00 PM | 62.8 | 64.6 | 62.5 |
| 09:00 PM - 10:00 PM | 62.6 | 64.1 | 62.3 |
| 10:00 PM - 11:00 PM | 62.6 | 65.6 | 62.3 |
| 11:00 PM - 12:00 AM | 62.8 | 65.8 | 62.5 |
| 12:00 AM - 01:00 AM | 62.7 | 64.2 | 62.5 |
| 01:00 AM - 02:00 AM | 62.4 | 64.6 | 62.2 |
| 02:00 AM - 03:00 AM | 62.4 | 63.7 | 62.3 |
| 03:00 AM - 04:00 AM | 62.5 | 64.5 | 62.3 |
| 04:00 AM - 05:00 AM | 62.3 | 65.6 | 62.6 |
| 05:00 AM - 06:00 AM | 62.9 | 69.2 | 62.9 |
| 06:00 AM - 07:00 AM | 63.2 | 71.9 | 62.6 |
| 07:00 AM - 08:00 AM | 62.6 | 65.8 | 62.2 |
| 08:00 AM - 09:00 AM | 62.6 | 65.8 | 62.2 |
| 09:00 AM - 10:00 AM | 62.9 | 61.5 | 62.7 |
| Leq Average 24 hrs. (dB(A)) | 62.9 | | |
| Lmax (dB(A)) | 81.5 | | |
| L90 (dB(A)) | 62.4 | | |
| Ldn (dB(A)) | 70 | | |
| Standard (dB(A)) | 115 | | |

Reference Method : ISO1996-1 and 1996-2
Standard : 1. กรมควบคุมมลพิษ (พ.ร.บ. 2560) สำหรับโรงงานอุตสาหกรรม
2. กรมควบคุมมลพิษ (พ.ร.บ. 2560) สำหรับโรงงานอุตสาหกรรม

Technical Management
Tharitat

Approved by

Supt S

Supot Suameth
Section Head

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7781-31/ ENAIL

S. Wipassit, Air Noise on (11/18/24)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622
Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756895-1

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)



Page 1 of 1

Sample Number : 2388622-17
Parameter : Noise (Leq 24 hrs.)
Location : ตำบลนาเกลือ (GPS 4°P 0733727, 1040233)
Measurement Date : Aug 18 - Aug 19, 2023
Measurement by : Sakorn Jarasay
Sound Level meter : Serial No. 709746

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 62.7 | 80.5 | 61.9 |
| 11:00 AM - 12:00 PM | 62.4 | 67.6 | 61.9 |
| 12:00 PM - 01:00 PM | 62.5 | 70.6 | 62.0 |
| 01:00 PM - 02:00 PM | 62.5 | 72.2 | 62.0 |
| 02:00 PM - 03:00 PM | 62.3 | 78.1 | 61.9 |
| 03:00 PM - 04:00 PM | 63.3 | 88.7 | 61.6 |
| 04:00 PM - 05:00 PM | 63.6 | 79.9 | 62.3 |
| 05:00 PM - 06:00 PM | 63.1 | 74.5 | 62.6 |
| 06:00 PM - 07:00 PM | 63.3 | 77.8 | 62.7 |
| 07:00 PM - 08:00 PM | 62.9 | 70.8 | 62.5 |
| 08:00 PM - 09:00 PM | 62.6 | 69.4 | 62.2 |
| 09:00 PM - 10:00 PM | 62.2 | 72.8 | 61.9 |
| 10:00 PM - 11:00 PM | 62.1 | 67.1 | 61.7 |
| 11:00 PM - 12:00 AM | 62.4 | 66.2 | 61.8 |
| 12:00 AM - 01:00 AM | 62.5 | 67.5 | 62.1 |
| 01:00 AM - 02:00 AM | 62.3 | 64.2 | 62.0 |
| 02:00 AM - 03:00 AM | 62.0 | 64.7 | 61.7 |
| 03:00 AM - 04:00 AM | 62.4 | 64.7 | 62.0 |
| 04:00 AM - 05:00 AM | 62.6 | 71.6 | 62.0 |
| 05:00 AM - 06:00 AM | 63.1 | 77.9 | 62.4 |
| 06:00 AM - 07:00 AM | 62.8 | 70.7 | 62.2 |
| 07:00 AM - 08:00 AM | 62.2 | 75.1 | 61.7 |
| 08:00 AM - 09:00 AM | 61.8 | 71.9 | 61.3 |
| 09:00 AM - 10:00 AM | 62.6 | 68.7 | 62.0 |

Leq Average 24 hrs. (dB(A)) : 62.6
Lmax (dB(A)) : 88.7
L90 (dB(A)) : 62.0
L01 (dB(A)) : 115

Standard (dB(A)) : 70
Reference Method : ISO 996-1 and 1996-2
Standard : 1. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนโรงงานอุตสาหกรรม
2. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนเกษตรกรรม
3. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนพาณิชยกรรม
4. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนราชการ
5. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนอื่น

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : **Tharitat.**
Thantia Kulsiwong
Scientist (4)
Approved by : **Supt S.**
Supt Salathit
Section Head

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778-331 ENGL S. Vinayak, Av. Maenam (H. H. H. H.)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622
Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756895-1

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)



Page 1 of 1

Sample Number : 2388622-18
Parameter : Noise (Leq 24 hrs.)
Location : ตำบลนาเกลือ (GPS 4°P 0733727, 1040233)
Measurement Date : Aug 19 - Aug 20, 2023
Measurement by : Sakorn Jarasay
Sound Level meter : Serial No. 709746

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 61.9 | 70.9 | 61.3 |
| 11:00 AM - 12:00 PM | 62.0 | 75.9 | 61.4 |
| 12:00 PM - 01:00 PM | 62.3 | 82.8 | 61.7 |
| 01:00 PM - 02:00 PM | 62.1 | 75.8 | 61.5 |
| 02:00 PM - 03:00 PM | 62.0 | 75.2 | 61.4 |
| 03:00 PM - 04:00 PM | 61.9 | 71.1 | 61.2 |
| 04:00 PM - 05:00 PM | 61.8 | 71.6 | 61.3 |
| 05:00 PM - 06:00 PM | 62.5 | 73.1 | 61.9 |
| 06:00 PM - 07:00 PM | 62.1 | 68.1 | 61.7 |
| 07:00 PM - 08:00 PM | 62.1 | 77.6 | 61.8 |
| 08:00 PM - 09:00 PM | 62.0 | 66.8 | 61.6 |
| 09:00 PM - 10:00 PM | 61.8 | 64.9 | 61.3 |
| 10:00 PM - 11:00 PM | 61.9 | 65.9 | 61.6 |
| 11:00 PM - 12:00 AM | 62.2 | 70.7 | 61.9 |
| 12:00 AM - 01:00 AM | 62.2 | 66.2 | 62.1 |
| 01:00 AM - 02:00 AM | 62.2 | 65.2 | 61.9 |
| 02:00 AM - 03:00 AM | 62.2 | 63.9 | 61.9 |
| 03:00 AM - 04:00 AM | 62.1 | 61.5 | 61.5 |
| 04:00 AM - 05:00 AM | 62.1 | 70.8 | 61.7 |
| 05:00 AM - 06:00 AM | 62.2 | 75.1 | 61.6 |
| 06:00 AM - 07:00 AM | 62.1 | 71.6 | 61.6 |
| 07:00 AM - 08:00 AM | 62.0 | 75.1 | 61.6 |
| 08:00 AM - 09:00 AM | 62.4 | 71.2 | 62.0 |
| 09:00 AM - 10:00 AM | 62.1 | 82.8 | 61.6 |

Leq Average 24 hrs. (dB(A)) : 62.1
Lmax (dB(A)) : 82.8
L90 (dB(A)) : 61.6
L01 (dB(A)) : 115

Standard (dB(A)) : 70
Reference Method : ISO 996-1 and 1996-2
Standard : 1. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนโรงงานอุตสาหกรรม
2. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนเกษตรกรรม
3. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนพาณิชยกรรม
4. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนราชการ
5. มาตรฐานการวัดและประเมินค่าเสียงในชุมชน (พ.ร.บ. 2540) สำหรับชุมชนอื่น

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : **Tharitat.**
Thantia Kulsiwong
Scientist (4)
Approved by : **Supt S.**
Supt Salathit
Section Head

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778-331 ENGL S. Vinayak, Av. Maenam (H. H. H. H.)



TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023

Date Reported : Aug 29, 2023

Report Number: 2756897-1

Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.

8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4514158445

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

| | |
|-------------------|---|
| Sample Number | 2388622-19 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | ตู้เก็บตัวอย่างน้ำ (GPS 479 0733727, 1404233) |
| Measurement Date | Aug 20 - Aug 21, 2023 |
| Measurement by | Saknarin Jansakay |
| Sound Level meter | Serial No. 709746 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 61.9 | 72.8 | 61.5 |
| 11:00 AM - 12:00 PM | 61.6 | 65.1 | 61.2 |
| 12:00 PM - 01:00 PM | 61.6 | 72.1 | 61.0 |
| 01:00 PM - 02:00 PM | 61.3 | 66.2 | 60.8 |
| 02:00 PM - 03:00 PM | 61.7 | 78.5 | 61.2 |
| 03:00 PM - 04:00 PM | 61.8 | 67.8 | 61.4 |
| 04:00 PM - 05:00 PM | 61.9 | 67.7 | 61.5 |
| 05:00 PM - 06:00 PM | 61.8 | 73.7 | 61.3 |
| 06:00 PM - 07:00 PM | 62.5 | 76.4 | 61.0 |
| 07:00 PM - 08:00 PM | 62.3 | 68.3 | 61.9 |
| 08:00 PM - 09:00 PM | 62.2 | 66.3 | 61.7 |
| 09:00 PM - 10:00 PM | 62.5 | 71.0 | 62.1 |
| 10:00 PM - 11:00 PM | 62.1 | 66.6 | 61.8 |
| 11:00 PM - 12:00 AM | 62.0 | 64.9 | 61.7 |
| 12:00 AM - 01:00 AM | 61.9 | 67.9 | 61.6 |
| 01:00 AM - 02:00 AM | 61.8 | 64.1 | 61.5 |
| 02:00 AM - 03:00 AM | 62.5 | 66.5 | 62.1 |
| 03:00 AM - 04:00 AM | 62.5 | 63.3 | 61.7 |
| 04:00 AM - 05:00 AM | 62.5 | 67.7 | 62.2 |
| 05:00 AM - 06:00 AM | 62.5 | 68.8 | 62.2 |
| 06:00 AM - 07:00 AM | 62.8 | 70.5 | 62.4 |
| 07:00 AM - 08:00 AM | 62.4 | 69.2 | 62.1 |
| 08:00 AM - 09:00 AM | 62.3 | 66.4 | 62.0 |
| 09:00 AM - 10:00 AM | 62.5 | 67.8 | 62.2 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 62.1 |
| Lmax (dB(A)) | 78.5 |
| L90 (dB(A)) | 61.7 |
| L01 (dB(A)) | 66.6 |
| Standard (dB(A)) | 70 |

Reference Method : ISO1996-1 and 1996-2

Standard : 1. กรุงเทพมหานครและปริมณฑล ฉบับที่ 15 (พ.ศ. 2540) ค่ามาตรฐานทางวิชาการด้านสิ่งแวดล้อม

2. กรุงเทพมหานครและปริมณฑล ฉบับที่ 15 (พ.ศ. 2540) ค่ามาตรฐานทางวิชาการด้านสิ่งแวดล้อม

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Tharitak.

Approved by

Supt S.

Thaila Kulawong
Scientist (4)

Suppt Salomah
Section Head

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RIGHT SOLUTIONS

781-311 BML

S. Pongrat, Al House (P) 171-204M



Analysis / Test Report

TESTING
No.0042

Lot ID: 2388622

Date Received : Aug 23, 2023

Date Reported : Aug 29, 2023

Report Number: 2756898-1

Client : Siam Polystyrene Co., Ltd.

8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 4514158445

Project Name : Environmental Quality Monitoring

Project Location : Map Ta Phut PS (SPCL)

Page 1 of 1

| | |
|-------------------|---|
| Sample Number | 2388622-20 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | ตู้เก็บตัวอย่างน้ำ (GPS 479 0733727, 1404233) |
| Measurement Date | Aug 21 - Aug 22, 2023 |
| Measurement by | Saknarin Jansakay |
| Sound Level meter | Serial No. 709746 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 62.3 | 68.1 | 61.8 |
| 11:00 AM - 12:00 PM | 61.7 | 68.0 | 61.3 |
| 12:00 PM - 01:00 PM | 61.4 | 75.0 | 61.2 |
| 01:00 PM - 02:00 PM | 61.9 | 75.0 | 61.4 |
| 02:00 PM - 03:00 PM | 61.8 | 68.9 | 61.4 |
| 03:00 PM - 04:00 PM | 61.5 | 68.3 | 61.1 |
| 04:00 PM - 05:00 PM | 62.1 | 71.9 | 61.5 |
| 05:00 PM - 06:00 PM | 62.0 | 68.9 | 61.5 |
| 06:00 PM - 07:00 PM | 62.4 | 75.5 | 61.8 |
| 07:00 PM - 08:00 PM | 62.0 | 69.9 | 61.6 |
| 08:00 PM - 09:00 PM | 62.9 | 66.6 | 62.1 |
| 09:00 PM - 10:00 PM | 63.6 | 74.1 | 62.3 |
| 10:00 PM - 11:00 PM | 62.7 | 69.0 | 62.3 |
| 11:00 PM - 12:00 AM | 62.9 | 66.8 | 62.5 |
| 12:00 AM - 01:00 AM | 62.6 | 65.0 | 62.3 |
| 01:00 AM - 02:00 AM | 62.4 | 63.9 | 62.1 |
| 02:00 AM - 03:00 AM | 62.5 | 64.5 | 62.2 |
| 03:00 AM - 04:00 AM | 62.5 | 66.9 | 62.2 |
| 04:00 AM - 05:00 AM | 62.5 | 71.5 | 62.2 |
| 05:00 AM - 06:00 AM | 62.5 | 70.5 | 62.2 |
| 06:00 AM - 07:00 AM | 62.5 | 71.0 | 62.1 |
| 07:00 AM - 08:00 AM | 62.6 | 74.7 | 61.9 |
| 08:00 AM - 09:00 AM | 62.4 | 71.0 | 61.9 |
| 09:00 AM - 10:00 AM | 61.7 | 71.0 | 61.3 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 62.3 |
| Lmax (dB(A)) | 77.9 |
| L90 (dB(A)) | 61.9 |
| L01 (dB(A)) | 69.0 |
| Standard (dB(A)) | 70 |

Reference Method : ISO1996-1 and 1996-2

Standard : 1. กรุงเทพมหานครและปริมณฑล ฉบับที่ 15 (พ.ศ. 2540) ค่ามาตรฐานทางวิชาการด้านสิ่งแวดล้อม

2. กรุงเทพมหานครและปริมณฑล ฉบับที่ 15 (พ.ศ. 2540) ค่ามาตรฐานทางวิชาการด้านสิ่งแวดล้อม

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Tharitak.

Approved by

Supt S.

Thaila Kulawong
Scientist (4)

Suppt Salomah
Section Head

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RIGHT SOLUTIONS

781-311 BML

S. Pongrat, Al House (P) 171-204M



TESTING
No. 0042

Lot ID: 2388622
Date Received : Aug 23, 2023
Date Reported : Aug 29, 2023
Report Number: 2756899-1

| Sample Number | Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---|---------------------|-------------|--------------|-------------|
| 2388622-21 | 10:00 AM - 11:00 AM | 61.2 | 68.8 | 61.2 |
| Noise (Oct 24 hrs.) | 11:00 AM - 12:00 PM | 61.8 | 68.7 | 61.3 |
| buffinsmnsrshnata (GPS 479 0733727, 404233) | 12:00 PM - 01:00 PM | 61.5 | 67.9 | 61.1 |
| Aug 22 - Aug 23, 2023 | 01:00 PM - 02:00 PM | 61.6 | 72.5 | 61.2 |
| Sabarin Arasky | 02:00 PM - 03:00 PM | 61.9 | 72.6 | 61.3 |
| Serial No. 705746 | 03:00 PM - 04:00 PM | 62.1 | 66.8 | 61.7 |
| | 04:00 PM - 05:00 PM | 62.1 | 70.8 | 61.7 |
| | 05:00 PM - 06:00 PM | 62.1 | 68.9 | 61.7 |
| | 06:00 PM - 07:00 PM | 62.2 | 70.1 | 61.8 |
| | 07:00 PM - 08:00 PM | 62.0 | 70.4 | 61.8 |
| | 08:00 PM - 09:00 PM | 61.9 | 69.6 | 61.6 |
| | 09:00 PM - 10:00 PM | 61.9 | 69.0 | 61.5 |
| | 10:00 PM - 11:00 PM | 61.9 | 67.1 | 61.5 |
| | 11:00 PM - 12:00 AM | 62.0 | 65.2 | 61.7 |
| | 12:00 AM - 01:00 AM | 62.0 | 70.1 | 61.7 |
| | 01:00 AM - 02:00 AM | 62.0 | 73.3 | 61.7 |
| | 02:00 AM - 03:00 AM | 62.0 | 65.4 | 61.7 |
| | 03:00 AM - 04:00 AM | 62.1 | 79.9 | 61.7 |
| | 04:00 AM - 05:00 AM | 62.2 | 76.2 | 61.8 |
| | 05:00 AM - 06:00 AM | 62.4 | 66.6 | 62.0 |
| | 06:00 AM - 07:00 AM | 62.5 | 75.6 | 62.0 |
| | 07:00 AM - 08:00 AM | 62.1 | 75.2 | 61.6 |
| | 08:00 AM - 09:00 AM | 62.0 | 72.2 | 61.5 |
| | 09:00 AM - 10:00 AM | 62.0 | 70.7 | 61.5 |

| | Leq Average 24 hrs. ($dB(A)$) | L_{eq} |
|------|---------------------------------|----------|
| 62.0 | | |

 $L_{\max}(\text{dB}(A))$ 79.9

61.6

[illegible]

Standard (2004))

Standard 1. ประสิทธิภาพการสื่อสารของนักศึกษา ฉบับที่ 15 (พ.ศ. 2540) (เอกสารแนบมาตรฐานที่ 15 ของทบวง)

2. www.ck12.org/Book-Search/Book-Search.aspx?text=math 15061999 p. 254B

Remark . The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Theriot, K. S.

Approved by _____

| | |
|---------------------|-----------------|
| Thamita Kalsuriwong | Supot Salamteah |
|---------------------|-----------------|

Scientist (a) Section Head

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RIGHT SOLUTIONS

ภาคผนวก ค-4

คุณภาพน้ำทิ้ง



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location : Map Ta Phut PS (SPCL)

TESTING
No.0042
Lot ID: 2374954
Date Received : Jul 05, 2023
Date Reported : Jul 11, 2023
Report Number : 2689911-1

Page 1 of 2

| Sample Number | 2374954-1 | | | | | | |
|--|---|-----|-----------|--------|---------------------------|--|------------------|
| Sample Date | Jul 05, 2023 10:10 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | ES 1080 | | | | | | |
| Date Analysis Commenced | Jul 05, 2023 | | | | | | |
| Condition of Sample | Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| MPD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O.G | Rayong |
| COD | mg/L | 1.5 | 25 | 33 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at pH 7.0) | ADNU | - | 5 | 10 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADNU | - | 5 | 9 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 Degree C * | - | - | - | 7.5 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4530 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 31.8 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 Degree C | mg/L | - | 5 | 688 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 Degree C | mg/L | - | 5 | 7 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banphit
Naumon Banphongkit
Supervisor

Approved by

D. Chumman
Dej Chumchong
Senior Manager

WATTHANAWI 3-323-4-9445

WATTHANAWI 3-323-4-9442

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THAILAND, 466 0 3104 8555



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location : Map Ta Phut PS (SPCL)

TESTING
No.0042
Lot ID: 2374954
Date Received : Jul 05, 2023
Date Reported : Jul 11, 2023
Report Number : 2689911-1

Page 2 of 2

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Jachompong Kommanat Y-323-4-9445, Thasoum Namakunni Y-204-4-8592.
Remark :
* LOD : Limit of Detection
* LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
* Analyte(s) marked * above not included in scope of Accreditation (ISO/IEC 17025).
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit
Naumon Banphongkit
Supervisor

Approved by

D. Chumman
Dej Chumchong
Senior Manager

WATTHANAWI 3-323-4-9445

WATTHANAWI 3-323-4-9442

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THAILAND, 466 0 3104 8555



Analysis / Test Report

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415945
Project Name : Water Testing
Project Location : Map Ta Phut, PS (SPCL)
Lot ID: 2374954
Date Received : Jul 05, 2023
Date Reported : Jul 13, 2023
Report Number : 29989112

Page 1 of 1

| | |
|-------------------------|---|
| Sample Number | 2374954-1 |
| Sample Date | Jul 05, 2023 10:10 AM |
| Sample Description | Wastewater |
| Location | E5-1890 |
| Date Analysis Commenced | Jul 10, 2023 |
| Condition of Sample | Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 9.63 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling by : Phatthompong Kongsawat, (Thansawat Namakunha)

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

CHAI S
Nath Sussong
Supervisor

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789-18 ENGL



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location : Map Ta Phut, Latex (SSLC)
Lot ID: 2374938
Date Received : Jul 05, 2023
Date Reported : Jul 13, 2023
Report Number : 29989111

Page 1 of 2

| | |
|-------------------------|---|
| Sample Number | 2374938-1 |
| Sample Date | Jul 05, 2023 9:45 AM |
| Sample Description | Wastewater |
| Location | Domestic Outlet |
| Date Analysis Commenced | Jul 05, 2023 |
| Condition of Sample | Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | 29 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | ADMI | 5 | 13 | 13 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | 5 | 12 | 12 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | - | - | - | 7.7 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4530 A (H) | Rayong |
| Temperature * | Degree C | - | - | 31.4 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 238 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 5.9 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Hong (C), part 4500-Hong (D) | Rayong |

Technical Management

N. Banphit
Narman Banphit
Supervisor
Wattana 323-9-9445

Approved by

D. Chongchai
Dej Chongchai
Senior Manager
Wattana 323-9-9442

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514144337
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)
Lot ID: 2374938
No.0042
Date Received : Jul 05, 2023
Date Reported : Jul 13, 2023
Report Number: 2698871-1

Page 2 of 2

Sample Number 2374938-1
Sample Date Jul 05, 2023 9:45 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Jul 05, 2023
Condition of Sample Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|--------|---------------------------|---|------------------|
| Water Testing | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | 5 | 17 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017)
Sampling By : Pathompong Kongsawat Watthanasri 3-323-a-9468, Thanassou Namakunwa Watthanasri 3-204-a-8592

Remarks :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
- Analytes marked * ignore not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Ban-ayut
Niramon Banchoogit
Supervisor
v100uesn7 3-323-a-9445

Approved by
D. Chongchon
Dai Chongchon
Senior Manager
v100uesn7 3-323-a-9442

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514144337
Project Name : Water Testing
Project Location: Map Ta Phut_Latex (SSLC)
Lot ID: 2374938
No.0042
Date Received : Jul 05, 2023
Date Reported : Jul 13, 2023
Report Number: 2698871-2

Page 1 of 1

Sample Number 2374938-1
Sample Date Jul 05, 2023 9:45 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Jul 07, 2023
Condition of Sample Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 4.47 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017)
Sampling By : Pathompong Kongsawat , Thanassou Namakunwa

Remarks :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)

Approved by

N. Ban-ayut
Niramon Banchoogit
Supervisor
v100uesn7 3-323-a-9445

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
B, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Sample Number : 2387464-1
Sample Date : Aug 02, 2023 10:25 AM
Sample Description : Wastewater
Location : ES-1860
Date Analysis Commenced : Aug 02, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

| Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5210 C | Rayong |
| COD | mg/L | 1.5 | 25 | 26 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D | Rayong |
| Color (at Original pH) | APM | - | 5 | 10 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | APM | - | 5 | 9 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | - | - | - | 7.6 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1930 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 31.7 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2530 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 404 | ≤3,000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 5 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
mobile 09-323-9945

Approved by

D. Janchai
Dej Chongchit
Senior Manager
mobile 09-323-9942

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
B, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location : Map Ta Phut_PS (SPCL)

Guideline : Effluent standard for factories, industrial estate and industrial park set by notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by notification of the Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chaiusorn Lertmaithakulchai วชิราวุธ 7-273-9461, Pattarapol Sawangjalam วชิราวุธ 7-204-9002
Remark :
- LOD : Limit of Detection
- "x" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
mobile 09-323-9945

Approved by

D. Janchai
Dej Chongchit
Senior Manager
mobile 09-323-9942

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ALS (THAILAND) CO., LTD. 466/3304 8555 FAX 466/3304 8556
ADDRESS 816/10 Moo 5 T. Maenam Khu A. Phakongkajon 21140 Thailand
www.alsglobal.com



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415945
Project Name : Water Testing
Project Location : Map Ta Phut PS (SPCL)
Lot ID: 2387464
Date Received : Aug 02, 2023
Date Reported : Aug 10, 2023
Report Number : 2278724-2

Page 1 of 1

Sample Number : 2387464-1
Sample Date : Aug 02, 2023 10:25 AM
Sample Description : Wastewater
Location : ES-1890
Date Analysis Commenced : Aug 04, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 7.09 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9310 B | Bangkok |

Guideline : (Thailand standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories, and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017))
Sampling by : Chaisriwan Lertmanakunchara, Pattanapong Sawanglalom

LOD : Limit of Detection
LOQ : Limit of Quantification (LOQ) (Limit of Reporting)

Siriluk P.
Siriluk Puangpang
Section Head

Approved by

No laboratory results are valid until they have been checked, interpreted and authorized by the laboratory manager. The signature of the laboratory manager is required on the report. The signature of the laboratory manager is required on the report. The signature of the laboratory manager is required on the report.

104 Fongthavekhan Rd., Khwaeng Prachinburi, Prachinburi 31000, Thailand. Tel: +66 0 3601 3000 Fax: +66 0 3601 3114
015 LAMLUANG TOWN, CHAIYATHANON 31000, Thailand. Tel: +66 0 3601 3000 Fax: +66 0 3601 3114

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RIGHT SOLUTIONS

200-10/PMX

5-Share@ALS-01 (K) (0001)



Analysis / Test Report

Client : Sam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location : Map Ta Phut, Latex (SSLC)
Lot ID: 2387461
Date Received : Aug 02, 2023
Date Reported : Aug 15, 2023
Report Number : 2278721-1

Page 1 of 2

Sample Number : 2387461-1
Sample Date : Aug 02, 2023 9:35 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Aug 02, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | 12.9 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | 33 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 19 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 19 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | 3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | - | - | - | 7.6 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 30.5 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 260 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 4.7 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Hong (C), part 4500 (D) | Rayong |

N. Banphit
Narumon Banphit
Supervisor

Approved by

D. Phum
Dij Chongkarn
Senior Manager

Wattana Wattana
Wattana Wattana
Wattana Wattana

Wattana Wattana
Wattana Wattana
Wattana Wattana

The above results are valid only for the purpose stated. ALS is not responsible for the results of the test if the sample is not properly preserved, handled, or if the test is not performed in accordance with the test method. The results of the test are not valid if the sample is not properly preserved, handled, or if the test is not performed in accordance with the test method. The results of the test are not valid if the sample is not properly preserved, handled, or if the test is not performed in accordance with the test method.

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RIGHT SOLUTIONS

200-10/PMX

5-Share@ALS-01 (K) (0001)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)

Lot ID: 2387461
Date Received : Aug 02, 2023
Date Reported : Aug 15, 2023
Report Number: 2728721-1

Page 2 of 2

| | | | | | | | |
|--|---|-----|--------|---------------------------|--|------------------|--|
| Sample Number | 2387461-1 | | | | | | |
| Sample Date | Aug 02, 2023 9:35 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | Domestic Outlet | | | | | | |
| Date Analysis Commenced | Aug 02, 2023 | | | | | | |
| Condition of Sample | Contained in two glass vials, two amber glass bottles and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA) | | | | | | |
| Analyte | Unit | LOQ | Result | Guideline / Specification | Method | Testing Location | |
| | | | | | | | |
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | 5 | 15 | ≤50 | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong | |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Chaiyaporn Lertsakulnuchan, Patteapod Sawangpholam

Remark :
LOQ : Limit of Detection
" < " : Lower than LOQ (Limit of Reporting)
Analytical method : None not included in scope of Accreditation ISO/IEC 17025.
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Ban-ya-rit
Naornon Ban-Chongkiet
Supervisor

Approved by

D. Phum-
Daj Chongchon
Senior Manager

2387461-1-323-4-9442

The above results are valid only for the stated purpose(s) as indicated in this report. No part of this report or certificate may be reproduced or used in any form without the written consent of ALS Laboratory Group (Thailand) except as recommended in this report. It is not intended to be used for any other purpose.

ALSHLS: 616/10 Moo 5 T. Maengom Khu A. Nuekdaeng Rayong 21140 Thailand PH: 06 3304 9555 FAX: 06 3304 9556
ALS LABORATORY GROUP (THAILAND) CO., LTD. for ALS Limited Company

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NIGHT SOLUTIONS

010-8472448

5:00pm-11:00pm (9 main)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)

Lot ID: 2387461
Date Received : Aug 02, 2023
Date Reported : Aug 15, 2023
Report Number: 2728721-2

Page 1 of 1

| | | | | | | | |
|-------------------------|---|------|-----------|--------|---------------------------|--|------------------|
| Sample Number | 2387461-1 | | | | | | |
| Sample Date | Aug 02, 2023 9:35 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | Domestic Outlet | | | | | | |
| Date Analysis Commenced | Aug 04, 2023 | | | | | | |
| Condition of Sample | Contained in two glass vials, two amber glass bottles and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 7.16 | No Standard | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Chaiyaporn Lertsakulnuchan, Patteapod Sawangpholam

Remark :
LOQ : Limit of Detection
" < " : Lower than LOQ (Limit of Reporting)

Approved by

Siriluk P.
Siriluk Puangpang
Section Head

The above results are valid only for the stated purpose(s) as indicated in this report. No part of this report or certificate may be reproduced or used in any form without the written consent of ALS Laboratory Group (Thailand) except as recommended in this report. It is not intended to be used for any other purpose.

WONGESS 104 Phatthana-Kan-40 Phatthana-Kan Rd. Khwaeng Phatthana-Kan, Khwaeng Phatthana-Kan, Bangkok 10150 Thailand PH: 06 466 0 2760 3000 FAX: 06 466 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. for ALS Limited Company

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NIGHT SOLUTIONS

010-8472448

5:00pm-11:00pm (13 main)



Analysis / Test Report

TESTING
No.0042
Lot ID: 23101141
Date Received : Sep 06, 2013
Date Reported : Sep 13, 2013
Report Number : 2759380-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451158415
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SPCL)

© 1999

Remark:

- > LOO : Limit of Detection
- > LOQ : Limit of Quantification / LQK (Limit of Reporting)
- > analytical method * must not included in scope of Accreditation ISO/IEC: 2025
- The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banerjee

Approved by _____

Dej Changchon

Senior Manager

323-A-9442

323-A-9442

any form will help another content from the full.

555 FAX #660 3304 8556

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8/20/02

Keywords: child sexual abuse; disclosure; self-blame

7700000 / 7.000000E2



Analysis / Test Report

Client : Sam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)

Page 1 of 1

| | | | | | | | |
|-------------------------|------|---|-----------|--------|---------------------------|--|------------------|
| Sample Number | | 2310112b-1 | | | | | |
| Sampled Date | | Sep 06, 2023 9:25 AM | | | | | |
| Sample Description | | Wastewater | | | | | |
| Location | | Domestic Outlet | | | | | |
| Date Analysis Commenced | | Sep 07, 2023 | | | | | |
| Condition of Sample | | Contained in two glass vials; one amber glass bottle and three plastic bottles; sample containers comply to pretreatment preservation standards (APHA, USEPA) | | | | | |
| Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 6.96 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, 2310 B | Bangladdh |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and Effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, 8.E.2560 (2017).
Sampling By : Warlop Hunchanagaw

Remarks:

- LOD : Limit of Detection
- "c" : Lower than LOQ (Limit of Quantitation) / LOD (Limit of Reporting)

[illegible]



Analysis / Test Report

TESTING
No.0042
Lot ID: 23111806
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number: 2787416-1

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location: Map Ta Phut PS (SPCL)

Page 1 of 3

| | | | | | | | |
|--|--|-----|-----------|--------|---------------------------|--|------------------|
| Sample Number | 23111806-1 | | | | | | |
| Sample Date | Oct 04, 2023 10:15 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | ES-1890 | | | | | | |
| Date Analysis Commenced | Oct 04, 2023 | | | | | | |
| Condition of Sample | Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment – preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O-G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 7 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 7 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | | - | - | 7.2 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (G) | Rayong |
| Temperature * | Degree C | - | - | 29.0 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 110 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banphat
Narumon Banchooglat
Supervisor
วสุฒิวนนท์ 3-323 4-9445

Approved by

D. Chuan
Daj Changchon
Senior Manager
วสุฒิวนนท์ 3-323 4-9442

*The above results are valid only for the parameters listed. Samples are analyzed as received. No part of this report or certificate may be reproduced in any form without written consent from the laboratory.

ADDRESS: 616/10 Moo 5 T. Maeruan Phra A. Muakdang Rayong 21140 Thailand TEL: 03304 8555 FAX: 03304 8556

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RIGHT SOLUTIONS

THAILAND

Tel: 03304 8555



Analysis / Test Report

TESTING
No.0042
Lot ID: 23111806
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number: 2787416-1

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location: Map Ta Phut PS (SPCL)

Page 2 of 2

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note: Raw data of COD value (Refer to Lot ID 23111806-1) is 15.8 mg/L.
Sampling By: Chaiusorn Lertthitachanchai (vstchuan@) 3-323 4-9461, Pattaraporn Sawangjatan (vstchuan@) 3-323 4-9002
Remark:
- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphat
Narumon Banchooglat
Supervisor
วสุฒิวนนท์ 3-323 4-9445

Approved by

D. Chuan
Daj Changchon
Senior Manager
วสุฒิวนนท์ 3-323 4-9442

*The above results are valid only for the parameters listed. Samples are analyzed as received. No part of this report or certificate may be reproduced in any form without written consent from the laboratory.

ADDRESS: 616/10 Moo 5 T. Maeruan Phra A. Muakdang Rayong 21140 Thailand TEL: 03304 8555 FAX: 03304 8556

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THAILAND

Tel: 03304 8555



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SPCL)

Lot ID: 23111806
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number : 2387416-2

Page 1 of 1

Sample Number 23111806-1
Sample Date Oct 04, 2023 10:15 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Oct 06, 2023
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment *

| Analyte | Unit | LOD | LOQ (LOQ) | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 2.08 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9210 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Note : Raw data of COD value (refer to lot ID 23111806-1) is 15.8 mg/L

Sampling By : Chinnason Lemaetrasurchar, Pattarapoti Sawangjalarn

Remark :
LOD : Limit of Detection
LOQ : Lower Limit of Quantitation / LOQ (Limit of Reporting)

Sirulok P.
Sirulok Puangpang
Section Head

Approved by

M/18/ES : 104 Phraetharakse 40, Phraetharakse Rd., Khwaeng Phraetharakse, Mueang Samut Prakan District, Bangkok 10260 Thailand. 011-011-466 0 2760 3197
ALS (LABORATORY GROUP) THAILAND CO., LTD. An ALS Limited Company
www.alsglobal.com

RIGHT SOLUTIONS
139-40 (244)



Analysis / Test Report

Client : Sam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514143337
Project Name : Water Testing
Project Location: Map Ta Phut, Latex (SSLC)

Lot ID: 23111750
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number : 2387406-1

Page 1 of 2

Sample Number 23111750-1
Sample Date Oct 04, 2023 9:20 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Oct 04, 2023
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment *

| Analyte | Unit | LOD | LOQ (LOQ) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4900 - G.G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 36 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 34 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9250 B | Rayong |
| pH at 25 degree C * | | - | - | 7.5 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 30.1 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 369 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 11.2 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Hung (C), part N63 (D) | Rayong |

N.Bangpit
Narumon Bancharngat
Supervisor

Approved by

Dr. Chomphon
Senior Manager
Vithaunant 5-323-99445
Vithaunant 5-323-99412

RIGHT SOLUTIONS
www.alsglobal.com
139-40 (244)



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location : Map Ta Phut Latex (SSLC)

Sample Number : 23111750-1
Sample Date : Oct 04, 2023 9:20 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Oct 04, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Lot ID: 23111750
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number : 2787406-1

Page 2 of 2

| Analyte | Unit | LOD | LOQ | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and adjacent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : Raw data of LOD value (refer to lot ID 23111750-1) is 15.8 mg/L
Sampling By : Chaiusorn Lertthanakulchai รหัสพนักงาน 3-323-9-9461, Pattarapol Sawangjalarn รหัสพนักงาน 3-204-9-0002

Remark :
- LOD : Limit of Detection
- "x" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * shall not be included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N.Bangyut
Nerumen Bandhokgel
Supervisor
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Approved by

D.Chuan
Dj Changuen
Senior Manager
รหัสพนักงาน 3-323-9-9442

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778-831/4446



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location : Map Ta Phut Latex (SSLC)

Sample Number : 23111750-1
Sample Date : Oct 04, 2023 9:20 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Oct 06, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Lot ID: 23111750
Date Received : Oct 04, 2023
Date Reported : Oct 11, 2023
Report Number : 2787406-2

Page 1 of 1

| Analyte | Unit | LOD | LOQ | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|-----|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 5.85 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and adjacent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chaiusorn Lertthanakulchai รหัสพนักงาน 3-323-9-9461, Pattarapol Sawangjalarn รหัสพนักงาน 3-204-9-0002

Remark :
- LOD : Limit of Detection
- "x" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Siriluk P.
Siriluk Puangbang
Section Head

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778-831/4446



Analysis / Test Report

TESTING
No.0042
Lot ID: 23125159
Date Received : Nov 01, 2023
Date Reported : Nov 09, 2023
Report Number : 2817726-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SPCL)

Sample Number 23125159-1
Sample Date Nov 01, 2023 10:50 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Nov 01, 2023
Condition of Sample Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing 1000 (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 G | Rayong |
| COD | mg/L | 1.5 | 25 | 29 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Fodor (at Original pH) | ADMI | - | 5 | 9 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2320 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 7 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2320 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | - | - | - | 8.3 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 31.3 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 330 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 6 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Bangpit
Narumon Banchoangkit
Supervisor
วิบูลย์ 3-323-9-9445

Approved by

D. Chumchon
Dej Chongchon
Senior Manager
วิบูลย์ 3-323-9-9442

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01/Nov/23, 14:04:11 (GMT+7)



Analysis / Test Report

TESTING
No.0042
Lot ID: 23125159
Date Received : Nov 01, 2023
Date Reported : Nov 09, 2023
Report Number : 2817726-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SPCL)

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Saisoon Khuyosai วิบูลย์ 3-323-9-0005, Thanassun Namakultra วิบูลย์ 3-204-8592

Remark :
- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- "c" : Analyte(s) marked * before not included in scope of Accreditation ISO/IEC 17025.
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Bangpit
Narumon Banchoangkit
Supervisor
วิบูลย์ 3-323-9-9445

Approved by

D. Chumchon
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Senior Manager
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Analysis / Test Report

Analysis / Test Report

TESTING
No.0042
Lot ID: 23125154
Date Received : Nov 01, 2023
Date Reported : Nov 09, 2023
Report Number : 2817720-1

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O : 4514140337

Project Name : Water Testing

Project location : Map Ta Phut Latex (SSL)

Page 1 of 1

| Sample Number | Sampled Date | Sample Description | Location | Date Analysis Commenced | Condition of Sample |
|---------------|-----------------------|--------------------|----------|-------------------------|---|
| 23125199-1 | Nov 01, 2023 10:59 AM | Wastewater | ES-1890 | Nov 02, 2023 | Contained in one amber glass bottle, two glass vials and three plastic bottles. Sample containers comply to pretreatment - presorption standards (AEMA, USEPA). |

Condition of Sample
Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment: preservation standards (AOHA, USEPA)

| Analysite | Unit | LOD | LOQ (LOD) | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 5.72 | No Standard | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2566 (2017).

Remark:

- LOQ
- "c"

:: Limit of Detection
 :: Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Approved by

Siriluk P.
Siriluk Puengpang
Section Head

Approved by _____

N. Banerjee
Narumon Banhong
Supervisor

Technical Management

D. L. L.

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)
TESTING
No.0042
Lot ID: 23125154
Date Received : Nov 01, 2023
Date Reported : Nov 05, 2023
Report Number : 2817720-1

Page 2 of 2

Sample Number : 23125154-1
Sample Date : Nov 01, 2023 9:55 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Nov 01, 2023
Condition of Sample : Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing Total Suspended Solids (TSS) at 123-115 mlyce | mg/L | | 5 | 11 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 250 D | Rayong |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017)
Note : Flow rate of COT value (refer to Lot ID 23125154-1) is 22.1 mg/L

Sampling By : Saisoon Khuyoksa, Visitouan@ 7-323-a-0005, Thaisoon Namsakunna, visitouan@ 7-204-a-8592

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOD (Limit of Quantification) / LOR (Limit of Reporting)
Analyte(s) marked * state not included in scope of Accreditation ISO/IEC 17025.
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Technical Management

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Approved by

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451414337
Project Name : Water Testing
Project Location: Map Ta Phut Latex (SSLC)
Lot ID: 23125154
Date Received : Nov 01, 2023
Date Reported : Nov 06, 2023
Report Number : 2817720-2

Page 1 of 1

Sample Number : 23125154-1
Sample Date : Nov 01, 2023 9:55 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Nov 02, 2023
Condition of Sample : Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|---------------------------------------|------|------|-----------|--------|---------------------------|--|------------------|
| Water Testing Total Organic Carbon | mg/L | 0.01 | 0.1 | 5.44 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 510 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017)
Sampling By : Saisoon Khuyoksa, Thaisoon Namsakunna

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOD (Limit of Quantification) / LOR (Limit of Reporting)

Approved by

Siriluk P.
Siriluk Puengsang
Section Head

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Analysis / Test Report



TESTING
No.0042
Lot ID: 23136406
Date Received : Dec 06, 2023
Date Reported : Dec 14, 2023
Report Number : 2843022-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location : Map Ta Phut, PS (SPCL)

Sample Number 23136406-1
Sample Date Dec 06, 2023 9:45 AM
Sample Description Wastewater
Location ES-1890
Date Analysis Commenced Dec 06, 2023
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ | Result (LOQ) | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----|--------------|---------------------------|--|------------------|
| Water Testing | | | | | | | Rayong |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 - G | Rayong |
| COD | mg/L | 1.5 | 25 | 32 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | ADRI | - | 5 | 10 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 8 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | - | - | - | 7.4 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 29.6 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 664 | ≤5000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 8 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
โทรศัพท์ 3-323-4-9445

Approved by

D. Chuan
Dej Chuanphon
Senior Manager
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Analysis / Test Report



TESTING
No.0042
Lot ID: 23136406
Date Received : Dec 06, 2023
Date Reported : Dec 14, 2023
Report Number : 2843022-1

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Water Testing
Project Location : Map Ta Phut, PS (SPCL)

Guideline: Efficient standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and efficient standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2550 (2017).
Sampling By : Sansoon Khuyokul โทรศัพท์ 3-323-4-0005, Thanassou Namakunla โทรศัพท์ 3-304-4-8592

Remark :
- LOD : Limit of Detection
- LOQ : Lower Limit of Quantitation / LOQ (Limit of Reporting)
- LOU : Limit of Use
- ISO/IEC 17025 : 2017
This laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
โทรศัพท์ 3-323-4-9445

Approved by

D. Chuan
Dej Chuanphon
Senior Manager
โทรศัพท์ 3-323-4-9442

Results apply to the sample(s) as submitted, unless the sample was re-analyzed by ALS. No part of this report may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from ALS Limited.

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ALS LABORATORY GROUP (THAILAND) CO., LTD. 401/10 Moo 5 T. Maenam Khv A. Phakdang Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Water Testing
Project Location: Map Ta Phut PS (SPCL)
Lot ID: 23136406
Date Received : Dec 06, 2023
Date Reported : Dec 13, 2023
Report Number : 2843021-2

Sample Number : 23136406-1
Sample Date : Dec 06, 2023 9:45 AM
Sample Description : Wastewater
Location : ES-1890
Date Analysis Commenced : Dec 07, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ (LOE) | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|-----------|--------|---------------------------|-------------|------------------|
| Water Testing | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 9.03 | No Standard | Bangkok |

Guidelines : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling BY : Sanjiv Khayakul , Thanasorn Namakura

LOQ : Limit of Detection
LOE : Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)

Remarks : None

Approved by : Siriluk P.
Siriluk Puangpaeng
Section Head

2843021-2

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Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514144337
Project Name : Water Testing
Project Location: Map Ta Phut, Latex (SSLC)
Lot ID: 23136380
Date Received : Dec 06, 2023
Date Reported : Dec 14, 2023
Report Number : 2842997-1

Sample Number : 23136380-1
Sample Date : Dec 06, 2023 9:28 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Dec 06, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ | LOE (LOE) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degrees C) | mg/L | - | 2.0 | 13.7 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 - G | Rayong |
| COD | mg/L | 1.5 | 25 | 47 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | APCM | - | 5 | 29 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1120 F | Rayong |
| Color (at pH 7.0) | APCM | - | 5 | 27 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1120 F | Rayong |
| DI & Grosse * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B | Rayong |
| pH at 25 degree C * | | - | - | 7.7 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 30.9 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 282 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 8.8 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 N (C), part 4500 N (D) | Rayong |

Approved by : N. Bangyit
Narumon Banthongkul
Supervisor
23136380-1

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23136380-1

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23136380-1



Analysis / Test Report

Client : Siam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 4514144337
Project Name : Water Testing
Project Location: Map Ta Phut, Latex (SSLC)
Lot ID: 23136380
Date Received : Dec 06, 2023
Date Reported : Dec 14, 2023
Report Number : 2842997-1

Sample Number : 23136380-1
Sample Date : Dec 06, 2023 9:28 AM
Sample Description : Wastewater
Location : Domestic Outlet
Date Analysis Commenced : Dec 06, 2023
Condition of Sample : Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ | LOE (LOE) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 degrees C) | mg/L | - | 2.0 | 13.7 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 - G | Rayong |
| COD | mg/L | 1.5 | 25 | 47 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Color (at Original pH) | APCM | - | 5 | 29 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1120 F | Rayong |
| Color (at pH 7.0) | APCM | - | 5 | 27 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1120 F | Rayong |
| DI & Grosse * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B | Rayong |
| pH at 25 degree C * | | - | - | 7.7 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 30.9 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 282 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 8.8 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 N (C), part 4500 N (D) | Rayong |

Approved by : N. Bangyit
Narumon Banthongkul
Supervisor
23136380-1

23136380-1

23136380-1

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23136380-1



Analysis / Test Report

Client : Sam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514144337
Project Name : Water Testing
Project Location: Map Ta Phut, Latex (SSLC)

Page 2 of 2

Sample Number 23136380-1
Sampled Date Dec 06, 2023 9:28 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Dec 06, 2023
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 24 | 550 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry and Commerce dated June 07, B.E.2560 (2017).
Sampling By : Sansoon Khuyosai, Thansoon Namakuana

Remark :
- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
- "C" : Where not included in scope of Accreditation (ISO/IEC 17025)
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

N. Banphit
Nuram Banphit
Supervisor
ติดต่อเรา 3-323-4-3445

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
ติดต่อเรา 3-323-4-9442

When apply to the standard, the sampling and testing method must be followed in full. In part of this report may be considered as not valid unless we receive comment from the laboratory.
ALS Laboratory Group (Thailand) enough requirement must be report to not recommend accept in full.

13/11/23, 6/6/10 Dec. 5 T. Meham Kru A. Plusdang Rayong 21140 Thailand P/CHIEF 466 0 3304 8555 FAX 466 0 3304 8556
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S. Srinuk, M. S. (M) (S. Srinuk)



Analysis / Test Report

Client : Sam Synthetic Latex Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514144337
Project Name : Water Testing
Project Location: Map Ta Phut, Latex (SSLC)

Page 1 of 1

Sample Number 23136380-1
Sampled Date Dec 06, 2023 9:28 AM
Sample Description Wastewater
Location Domestic Outlet
Date Analysis Commenced Dec 07, 2023
Condition of Sample Contained in two glass vials, two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
|----------------------|------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing | | | | | | | |
| Total Organic Carbon | mg/L | 0.01 | 0.1 | 6.54 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B | Bangkok |

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry and Commerce dated June 07, B.E.2560 (2017).
Sampling By : Sansoon Khuyosai, Thansoon Namakuana

Remark :
- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)

Approved by

S. Srinuk P.
Srinuk Puangpang
Section Head

When apply to the standard, the sampling and testing method must be followed in full. In part of this report may be considered as not valid unless we receive comment from the laboratory.
ALS Laboratory Group (Thailand) enough requirement must be report to not recommend accept in full.

13/11/23, 6/6/10 Dec. 5 T. Meham Kru A. Plusdang Rayong 21140 Thailand P/CHIEF 466 0 3304 8555 FAX 466 0 3304 8556
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S. Srinuk, M. S. (M) (S. Srinuk)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 23101147
Date Received : Sep 06, 2023
Date Reported : Sep 18, 2023
Report Number: 2759393-1 C3

Page 1 of 3

| | | | | | | | | |
|-----------------------------|--|-------|-----------|--------------|---------------------------|--|------------------|--|
| Sample Number | 23101147-1 | | | | | | | |
| Sampling Date | Sep 06, 2023 10:25 AM | | | | | | | |
| Sample Description | Wastewater | | | | | | | |
| Location | Outfall | | | | | | | |
| Date Analysis Commenced | Sep 06, 2023 | | | | | | | |
| Condition of Sample | Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | | |
| Physical Property | Yellow, some odour, solid and no turbid | | | | | | | |
| Analyte | Unit | LOD | LOQ (LOE) | Result | Guideline / Specification | Method | Testing Location | |
| Water Testing | | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O.C | Rayong | |
| COD | (mg/L) | 1.5 | 25 | 37 | ≤120 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D | Rayong | |
| Color (at Original pH) | ADPH | - | 5 | 13 | ≤500 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong | |
| Color (at pH 7.0) | ADPH | - | 5 | 10 | ≤300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong | |
| Cyanide %as CN | mg/L | 0.001 | 0.005 | Not Detected | ≤0.2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C) | Rayong | |
| Formaldehyde | mg/L | 0.03 | 0.1 | <0.1 | ≤1.0 | Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004 | Rayong | |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤5 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong | |
| pH at 25 degree C * | | - | - | 8.1 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (H) | Rayong | |

Technical Management: N. Banphit
Supervisor: Naitum Banphongat
Senior Manager: Det Chingchon
vittidunay 7-323-4-9445

Approved by: D. Khum

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or test data may be reproduced or transmitted in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) Limited strongly recommends that this report is not reprinted or used in full.
ADDRESS: 616/10 Moo 5 T. Maenam Phu A. Phukdaeng Rayong 21140 Thailand PH/WH: +66 0 3304 8555 FAX: +66 0 3304 8556
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NIGHT SOLUTIONS

0306-302 8945



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0042
Lot ID: 23101147
Date Received : Sep 06, 2023
Date Reported : Sep 18, 2023
Report Number: 2759393-1 C3

Page 2 of 3

| | | | | | | | | |
|--|---|-------|-----------|--------------|---------------------------|--|------------------|--|
| Sample Number | 23101147-1 | | | | | | | |
| Sampling Date | Sep 06, 2023 10:25 AM | | | | | | | |
| Sample Description | Wastewater | | | | | | | |
| Location | Outfall | | | | | | | |
| Date Analysis Commenced | Sep 06, 2023 | | | | | | | |
| Condition of Sample | Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, USEPA) | | | | | | | |
| Physical Property | Yellow, some odour, solid and no turbid | | | | | | | |
| Analyte | Unit | LOD | LOQ (LOE) | Result | Guideline / Specification | Method | Testing Location | |
| Water Testing | | | | | | | | |
| Phenol | mg/L | 0.005 | 0.01 | Not Detected | ≤1.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D | Rayong | |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong | |
| Sulfide * | mg/L | - | 0.5 | <0.5 | ≤1.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C), F) | Rayong | |
| Temperature * | Degree C | - | - | 33.3 | ≤40 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong | |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 876 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong | |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | <1.0 | ≤100 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (O) | Rayong | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤50 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 D | Rayong | |

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling by : Winthip Hunchanawattanasat 7-323-4-9457, Thanassoon Namkarnma vittidunay 7-323-4-8592.

Remarks :
- LOD : Limit of Detection
- LOQ : Lower than LOD (Limit of Quantification) / LOE (Limit of Reporting)

Technical Management: N. Banphit
Supervisor: Naitum Banphongat
Senior Manager: Det Chingchon
vittidunay 7-323-4-9445

Approved by: D. Khum

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or test data may be reproduced or transmitted in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) Limited strongly recommends that this report is not reprinted or used in full.
ADDRESS: 616/10 Moo 5 T. Maenam Phu A. Phukdaeng Rayong 21140 Thailand PH/WH: +66 0 3304 8555 FAX: +66 0 3304 8556
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NIGHT SOLUTIONS

0306-302 8945



Analysis / Test Report

Client : Sam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, E-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0042

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 275993-1 C3

Page 2 of 2

* Analyte(s) marked * above not included in scope of Accreditation ISO/IEC 17025.

Sample Number 23101147-1
Sampling Date Sep 06, 2023 10:25 AM
Sample Description Wastewater
Location Outfall
Date Analysis Commenced Sep 07, 2023
Condition of Sample Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline / Specification | Method | Testing Location |
|---------------------|------|--------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Arsenic | mg/L | 0.0003 | 0.0005 | 0.005 | ≤0.25 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Barium | mg/L | 0.0003 | 0.0005 | 0.26 | ≤1.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Calcium | mg/L | 0.0003 | 0.0005 | Not Detected | ≤0.03 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Copper | mg/L | 0.0003 | 0.0005 | 0.005 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Hexavalent Chromium | mg/L | 0.0003 | 0.001 | Not Detected | ≤0.25 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B | Bangkok |
| Lithium | mg/L | 0.0003 | 0.0005 | 0.001 | ≤0.2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Manganese | mg/L | 0.0003 | 0.0005 | 0.04 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Mercury | mg/L | 0.0001 | 0.0005 | Not Detected | ≤0.005 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Technical Management

N. Banthit

Neramon Banthit
Supervisor
วิบูลย์ 1-323-3945

Approved by

D. Chingdon

Dol Chingdon
Senior Manager
วิบูลย์ 1-323-9442

Technical Management

Savitree N.

Savitree Nongam
Manager
วิบูลย์ 1-323-4709

Approved by

K. Anuk

Kanikarn Anuk
Senior Manager
วิบูลย์ 1-323-6111

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07/101/23 816/10 Moo 5 T. Maunran Khu A. Phrasakongthong 21140 Thailand TEL: +66 0 3104 8555 FAX: +66 0 3104 8556
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RIGHT SOLUTIONS

0006-1021 (2446)



Analysis / Test Report

Client : Sam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, E-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_PS (SPCL)

TESTING
No.0009

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 275993-2 C3

Page 1 of 2

Sample Number 23101147-1
Sampling Date Sep 06, 2023 10:25 AM
Sample Description Wastewater
Location Outfall
Date Analysis Commenced Sep 07, 2023
Condition of Sample Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline / Specification | Method | Testing Location |
|---------------------|------|--------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Arsenic | mg/L | 0.0003 | 0.0005 | 0.005 | ≤0.25 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Barium | mg/L | 0.0003 | 0.0005 | 0.26 | ≤1.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Calcium | mg/L | 0.0003 | 0.0005 | Not Detected | ≤0.03 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Copper | mg/L | 0.0003 | 0.0005 | 0.005 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Hexavalent Chromium | mg/L | 0.0003 | 0.001 | Not Detected | ≤0.25 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B | Bangkok |
| Lithium | mg/L | 0.0003 | 0.0005 | 0.001 | ≤0.2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Manganese | mg/L | 0.0003 | 0.0005 | 0.04 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Mercury | mg/L | 0.0001 | 0.0005 | Not Detected | ≤0.005 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Technical Management

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Neramon Banthit
Supervisor
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Approved by

D. Chingdon

Dol Chingdon
Senior Manager
วิบูลย์ 1-323-9442

Technical Management

Savitree N.

Savitree Nongam
Manager
วิบูลย์ 1-323-4709

Approved by

K. Anuk

Kanikarn Anuk
Senior Manager
วิบูลย์ 1-323-6111

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RIGHT SOLUTIONS

0006-1021 (2446)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
B, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 0081114
Project Name : Water Testing
Project Location : Map Ta Phut, IS (SPCL)

Sample Number 23101147-1

Sampling Date Sep 06, 2023 10:25 AM

Sample Description Wastewater

Location Outfall

Date Analysis Commenced Sep 07, 2023

Condition of Sample Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Physical Property Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ | Result | Guideline / Specification | Method | Testing Location |
|--|------|--------|--------|--------------|---------------------------|--|------------------|
| Metals Testing | | | | | | | |
| Mercury | mg/L | 0.0003 | 0.0005 | 0.008 | ≤1.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Chromium | mg/L | 0.0003 | 0.0005 | 0.0006 | ≤0.02 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Inorganic Chromium | mg/L | - | 0.01 | <0.01 | ≤0.75 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Phosphate | mg/L | 0.0003 | 0.0005 | 1.27 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Pesticides - Organochlorine Group | | | | | | | |
| 2,4-DDE * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| 2,4-DDE * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| 2,4-DDT * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |

Technical Management

Savitree N.
Sawitree Nisangam
Manager

Approved by

Kanokorn Anik
Kanokorn Anik
Senior Manager

Wattana 7-204-4709

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100-1001 (FWS)



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
B, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 0081114
Project Name : Water Testing
Project Location : Map Ta Phut, IS (SPCL)

Sample Number 23101147-1

Sampling Date Sep 06, 2023 10:25 AM

Sample Description Wastewater

Location Outfall

Date Analysis Commenced Sep 07, 2023

Condition of Sample Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Physical Property Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ | Result | Guideline / Specification | Method | Testing Location |
|--|------|------|------|--------------|---------------------------|--|------------------|
| Pesticides - Organochlorine Group | | | | | | | |
| 4,4-DDD * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| 4,4-DDE * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| 4,4-DDT * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| Atrazine * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| alpha-BHC * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| beta-BHC * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |
| Chlordane * | ug/L | 0.02 | 0.04 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6530 D, part 6410 B | Bangkok |

Technical Management

Savitree N.
Sawitree Nisangam
Manager

Approved by

Kanokorn Anik
Kanokorn Anik
Senior Manager

Wattana 7-204-4709

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RIGHT SOLUTIONS

100-1001 (FWS)



TESTING
No.0009

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 2759393-2 C1

Page 3 of 2



TESTING
No.0009

Lot ID: 23101147
Date Received : Sep 06, 2023
Date Reported : Sep 18, 2023
Report Number: 2759393-2 C3

Client : Sam Polyethylene Co., Ltd.
5, Map Ta Phut Industrial Estate, 1-1 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SCL)

Page 4 of 5



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
5, Map Ta Phut Industrial Estate, 1-1 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SCL)

Sample Number : 23101147-1
Sampling Date : Sep 06, 2023 10:25 AM
Sample Description : Wastewater
Location : Outfall
Date Analysis Commenced : Sep 07, 2023
Condition of Sample : Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ (LOQ) | Result | Guideline / Specification | Method | Testing Location |
|--|------|------|-----------|--------------|---------------------------|--|------------------|
| Pesticides - Organochlorine Group | | | | | | | |
| Endrin-BHC * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Dieldrin * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Endosulfan I * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Endosulfan II * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Endrin * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Heptachlor * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Heptachlor-Epoxyde * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |

Technical Management : Sawitree N. Manager
Approved by : Kanokorn Anek Senior Manager
wattanaunth 204-n-6111

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Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
5, Map Ta Phut Industrial Estate, 1-1 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut, PS (SCL)

Page 5 of 5

Sample Number : 23101147-1
Sampling Date : Sep 06, 2023 10:25 AM
Sample Description : Wastewater
Location : Outfall
Date Analysis Commenced : Sep 07, 2023
Condition of Sample : Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ (LOQ) | Result | Guideline / Specification | Method | Testing Location |
|--|------|------|-----------|--------------|---------------------------|--|------------------|
| Pesticides - Organochlorine Group | | | | | | | |
| Lindane (gamma-BHC) * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |
| Methoxychlor * | ug/L | 0.01 | 0.02 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B | Bangkok |

Guideline: Efficient standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and efficient standard for factories and industrial park set by Notification of the Ministry of Industry used June 07, B.E.2560 (2017).
Sampling by : Winthip Hanchaisriwong 7523-4-457, Thanasoon Namakorn Wattanaunth 204-n-6111

Remark :
- LOD : Limit of Detection
- <LOQ : Lower than LOQ (Limit of Reporting)
- Analyte(s) marked * (are not included in scope of Accreditation ISO/IEC 17025)

Technical Management : Sawitree N. Manager
Approved by : Kanokorn Anek Senior Manager
wattanaunth 204-n-6111

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190-1011040



Analysis / Test Report

TESTING
No.0009

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 2759393-3 C3

Page 1 of 4

Client : Sam Polystyrene Co., Ltd.

8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081114

Project Name : Water Testing

Project Location: Map Ta Phut, PS (SCL)

| | |
|-------------------------|--|
| Sample Number | 23101147-1 |
| Sampling Date | Sep 06, 2023 10:25 AM |
| Sample Description | Wastewater |
| Location | Outfall |
| Date Analysis Commenced | Sep 07, 2023 |
| Condition of Sample | Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some colour, solid and no turbid |

| Analyte | Unit | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | |
| Phosphorus | mg/L | 0.03 | 0.69 | No Standard | In-house method - STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Pesticides - Organochlorine Group | | | | | | |
| alpha-Chlordane * | ug/L | 0.01 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6410 B | Bangkok |
| gamma-Chlordane * | ug/L | 0.01 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6410 B | Bangkok |
| Heachlorobenzene * | ug/L | 0.01 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6410 B | Bangkok |
| Mirex * | ug/L | 0.01 | Not Detected | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6410 B | Bangkok |
| Volatile Organics Compounds | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 1.5 | 5 | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| 1,1,2-Trichloroethane | ug/L | 1.5 | 5 | Not Detected | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |

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Savitree Nongnang
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RIGHT SOLUTIONS

000-891/1/04C



Analysis / Test Report

TESTING
No.0009

Lot ID: 23101147

Date Received : Sep 06, 2023

Date Reported : Sep 18, 2023

Report Number : 2759393-3 C3

Page 2 of 4

Client : Sam Polystyrene Co., Ltd.

8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150

P/O : 00081114

Project Name : Water Testing

Project Location: Map Ta Phut, PS (SCL)

| | |
|-------------------------|--|
| Sample Number | 23101147-1 |
| Sampling Date | Sep 06, 2023 10:25 AM |
| Sample Description | Wastewater |
| Location | Outfall |
| Date Analysis Commenced | Sep 07, 2023 |
| Condition of Sample | Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |
| Physical Property | Yellow, some colour, solid and no turbid |

| Analyte | Unit | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|------------------------------------|------|-----------|--------|---------------------------|-------------|------------------|
| Volatile Organics Compounds | | | | | | |
| 1,1-Dichloroethylene | ug/L | 1.5 | 5 | Not Detected | No Standard | Bangkok |
| 1,2-Dichloroethane | ug/L | 1.5 | 5 | Not Detected | No Standard | Bangkok |
| 1,3-Dichloropropane * | ug/L | 1.5 | 5 | Not Detected | No Standard | Bangkok |
| Isobutene | ug/L | 1.5 | 5 | Not Detected | No Standard | Bangkok |
| Transdichloromethane * | ug/L | 0.2 | 0.5 | Not Detected | No Standard | Bangkok |
| Bromochloroform * | ug/L | 0.2 | 0.5 | <0.5 | No Standard | Bangkok |
| Carbon tetrachloride | ug/L | 1.5 | 5 | Not Detected | No Standard | Bangkok |
| Chloroform * | ug/L | 0.2 | 0.5 | 1.8 | No Standard | Bangkok |
| cis-1,2-Dichloroethylene | ug/L | 1.5 | 5 | Not Detected | No Standard | Bangkok |

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RIGHT SOLUTIONS

000-891/1/04C



Analysis / Test Report

TESTING
No.0009

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_P5 (PCL)

Lot ID: 23101147
Date Received : Sep 06, 2023
Date Reported : Sep 18, 2023
Report Number: 2759393-3 C3

Page 3 of 4

Sample Number 23101147-1
Sampling Date Sep 06, 2023 10:25 AM
Sample Description Wastewater
Location Outfall
Date Analysis Commenced Sep 07, 2023
Condition of Sample Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
|--|------|-----|-----------|--------------|---------------------------|---|------------------|
| Volatile Organics Compounds Dichloromethane * | ug/L | 0.2 | 0.5 | 0.9 | No Standard | In-house method based on United States Environmental Protection Agency EPA Method 8210 B and 8240 D | Bangkok |
| Ethylbenzene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Heachlorobutadiene * | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Methyl Chloride * | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Methylene Chloride (Dichloromethane) | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Styrene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Tetrachloroethylene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Toluene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Total Trihalomethanes * | ug/L | 0.2 | 1 | 2.9 | No Standard | In-house method based on United States Environmental Protection Agency EPA Method 8210 B and 8240 D | Bangkok |

The above results are valid only for the unspiked samples (3) as indicated in the Laboratory Report. If the sample is spiked, the results may vary without written consent from the Laboratory. ALS Laboratory Group (Thailand) Private Limited. Sample preservation and storage conditions are not guaranteed except as stated.

Approved by *Savitree N.*
Savitree Nongkarn
Manager

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RIGHT SOLUTIONS

MS-102 (Rev. 1)



Analysis / Test Report

TESTING
No.0009

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 00081114
Project Name : Water Testing
Project Location: Map Ta Phut_P5 (PCL)

Lot ID: 23101147
Date Received : Sep 06, 2023
Date Reported : Sep 18, 2023
Report Number: 2759393-3 C3

Page 4 of 4

Sample Number 23101147-1
Sampling Date Sep 06, 2023 10:25 AM
Sample Description Wastewater
Location Outfall
Date Analysis Commenced Sep 07, 2023
Condition of Sample Contained in one BOD bottle, six glass vials, three amber glass bottles and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
|---|------|------|-----------|--------------|---------------------------|---|------------------|
| Volatile Organics Compounds Total Xylene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| 1,2-Dichloroethylene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Trichloroethylene | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Vinyl chloride (Chloroethylene) | ug/L | 1.5 | 5 | Not Detected | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B | Bangkok |
| Water Testing Total Organic Carbon * | mg/L | 0.01 | 0.1 | 12.7 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B | Bangkok |

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Wanlop Hunchinshaw, Thaisouk Namakorn

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analysis marked * where not included in scope of Accreditation ISO/IEC 17025.

The above results are valid only for the unspiked samples (3) as indicated in the Laboratory Report. If the sample is spiked, the results may vary without written consent from the Laboratory. ALS Laboratory Group (Thailand) Private Limited. Sample preservation and storage conditions are not guaranteed except as stated.

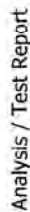
Approved by *Savitree N.*
Savitree Nongkarn
Manager

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RIGHT SOLUTIONS

MS-102 (Rev. 1)



Expenditure on

Guideline: Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remarks:

- LOD : Limit of Detection
- < LOD : Lower than LOD (Limit of Quantitation) / LOQ (Limit of Quantitation)
- < C_u :

Approved by Savitree N.
Savitree Nisangam
Manager

SUMITOMO 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand. TEL: +66 0 2760 3000 FAX: +66 0 2760 8109
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SOLUTIONS

Keywords: child sexual abuse; disclosure; social support

ภาคผนวก ค-5

คุณภาพน้ำใต้ดิน



Analysis / Test Report

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514159445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SPCL)

Lot ID: 234199
Date Received : Oct 18, 2023
Date Reported : Oct 27, 2023
Report Number : 2541631-1

Page 1 of 1

Sample Number : 234199-1
Sample Date : Oct 18, 2023 11:05 AM
Sample Description : Groundwater
Location : MW-3 (Near Latex Plant)
Date Analysis Commenced : Oct 18, 2023
Condition of Sample : Contained in one amber glass bottle, one plastic bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
|------------------------------------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing pH at 25 degree C | | | 6.2 | 6.5-9.2 (1) | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (5) | Rayong |

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures
(1) : บรรยายถึงปริมาณการปนเปื้อนของสารเคมีในดินและน้ำใต้ดินที่เกินกว่าเกณฑ์ที่กำหนดไว้ในการตรวจสอบคุณภาพดินและน้ำใต้ดินตามมาตรฐานที่กำหนดไว้ในคู่มือการตรวจสอบคุณภาพดินและน้ำใต้ดินฉบับนี้
2. การปนเปื้อนของสารเคมีในดินและน้ำใต้ดินที่เกินกว่าเกณฑ์ที่กำหนดไว้ในการตรวจสอบคุณภาพดินและน้ำใต้ดินตามมาตรฐานที่กำหนดไว้ในคู่มือการตรวจสอบคุณภาพดินและน้ำใต้ดินฉบับนี้
3. การปนเปื้อนของสารเคมีในดินและน้ำใต้ดินที่เกินกว่าเกณฑ์ที่กำหนดไว้ในการตรวจสอบคุณภาพดินและน้ำใต้ดินตามมาตรฐานที่กำหนดไว้ในคู่มือการตรวจสอบคุณภาพดินและน้ำใต้ดินฉบับนี้
Sampling by : Winthrop Hunchaisriwin
Remarks :
- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
- Method : 4514159445
The laboratory has been fully accredited by the Thai Ministry of Industry B.E. 2559 (2016) for the following services: (1) Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures.

Technical Management

N. Banchaisri
Nattaporn Banchaisri
Supervisor
ติดต่อ : 09-323-49445

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
ติดต่อ : 09-323-49442

The above results are valid only for the stated purpose and conditions. No part of this report or certificate may be reproduced or used in any form without written consent from ALS. 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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 45141584S
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SQCL)
Lot ID: 23121688
Date Received : Oct 19, 2023
Date Reported : Oct 28, 2023
Report Number : 2818943-1

Page 1 of 1

Sample Number : 23121688-3
Sample Date : Oct 19, 2023 12:25 PM
Sample Description : Groundwater
Location : MW-6 (South Fence)
Date Analysis Commenced : Oct 19, 2023
Condition of Sample : Contained in one plastic bottle, one amber glass bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | Result | Guideline / Specification | Method | Testing Location |
|------------------------------------|------|-----|--------|---------------------------|---|------------------|
| Water Testing pH at 25 Degree C | | | 6.6 | 6.5-9.2 (1) | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (9) | Rayong |

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Remediation Measures

Sampling By : Wanlop Hunchalaow

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOD (Limit of Quantification) / LOQ (Limit of Reporting)

Technical Management

N. Banphat

Nauman Banphat
Supervisor

Approved by

D. Chingchon

Dej Chingchon
Senior Manager

Watthana 3-23-4-9442

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 45141584S
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SQCL)
Lot ID: 23121688
Date Received : Oct 19, 2023
Date Reported : Oct 28, 2023
Report Number : 2818943-2

Page 1 of 1

Sample Number : 23121688-3
Sample Date : Oct 19, 2023 12:25 PM
Sample Description : Groundwater
Location : MW-6 (South Fence)
Date Analysis Commenced : Oct 20, 2023
Condition of Sample : Contained in one plastic bottle, one amber glass bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | Result | Guideline / Specification | Method | Testing Location |
|--|------------|------|--------|---------------------------|--|------------------|
| Water Testing Conductivity at 25 Degree C | microhm/cm | | 629 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B | Rayong |
| Total Organic Carbon | mg/L | 0.01 | 8.76 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B | Bangkok |
| Total Petroleum Hydrocarbon | mg/L | | <3 | No Standard | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 F | Rayong |

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Remediation Measures

Sampling By : Wanlop Hunchalaow

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOD (Limit of Quantification) / LOQ (Limit of Reporting)

Approved by

N. Banphat

Nauman Banphat
Supervisor

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TH-33/ENH

S:\MapTaPhut\CA_01_01\11022401



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Date Received : Oct 20, 2023
Date Reported : Oct 27, 2023
Project Name : Environmental Quality Monitoring
Report Number : 281891-1
Project Location : Map Ta Phut, PS (SPCL)

Page 1 of 1

Sample Number : 23122103-1
Sample Date : Oct 20, 2023 10:25 AM
Sample Description : Groundwater
Location : MW-4 (Behind Warehouse)
Date Analysis Commenced : Oct 20, 2023
Condition of Sample : Contained in two glass vials, one amber glass bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ (LOQ) | Result | Guideline / Specification | Method | Testing Location |
|------------------------------------|------|-----------|--------|---------------------------|---|------------------|
| Water Testing pH at 25 degree C | | | 6.5 | 6.5-9.2 (1) | Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, part 4500 - F (1) | Rayong |

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures
(1) : ห้ามทิ้งของเสียอันตรายของเหลวลงสู่ดินโดยไม่ผ่านการบำบัดก่อน หรือทิ้งลงสู่ดินโดยไม่ผ่านการบำบัดก่อน และต้องเก็บรักษาของเสียอันตรายของเหลวในภาชนะที่ปิดสนิท และต้องเก็บรักษาของเสียอันตรายของเหลวในภาชนะที่ปิดสนิท

Sampling Pt : Wanlop Hanchanokwit 3-323-4-9457
Remarks :
LOQ : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Technical Management : N. Banjart
Supervisor : N. Banjart
Approved by : D. Chongkiet
Senior Manager : D. Chongkiet
3-323-4-9442
3-323-4-9442
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788-310-8448



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Date Received : Oct 20, 2023
Date Reported : Oct 27, 2023
Project Name : Environmental Quality Monitoring
Report Number : 281891-2
Project Location : Map Ta Phut, PS (SPCL)

Sample Number : 23122103-1
Sample Date : Oct 20, 2023 10:25 AM
Sample Description : Groundwater
Location : MW-4 (Behind Warehouse)
Date Analysis Commenced : Oct 24, 2023
Condition of Sample : Contained in two glass vials, one amber glass bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ (LOQ) | Result | Guideline / Specification | Method | Testing Location |
|--|------------|-----------|--------|---------------------------|--|------------------|
| Water Testing Conductivity at 25 Degree C | microhm/cm | 0.5 | 530 | No Standard | Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, part 2510 B | Rayong |
| Total Organic Carbon | mg/L | 0.01 | 9.63 | No Standard | Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, part 5310 B | Bangkok |
| Total Petroleum Hydrocarbon | mg/L | 3 | <3 | No Standard | In-house method based on Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, part 5520 F | Rayong |

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures
Sampling Pt : Wanlop Hanchanokwit

Remarks :
LOQ : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Approved by : D. Chongkiet
Senior Manager : D. Chongkiet
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788-310-8448



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 11150
P/O : 4514158495
Project Name : Environmental Quality Monitoring

Lot ID: 231221103
Date Received : Oct 20, 2023
Date Reported : Oct 27, 2023
Report Number : 281002-2

Page 1 of 1

| Sample Number | Sample Date | Sample Description | Date Analysis Commenced | Condition of Sample |
|---------------|----------------------|--------------------|-------------------------|--|
| 23122103-2 | Oct 20, 2023 9:50 AM | Groundwater | 10/24, 2023 | Contained in two glass vials, one amber glass bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (BPAH, USEPA) |

| Analyte | Unit | LOD | LOQ (LOB) | Result | Guideline / Specification | Method | Testing Location |
|--|--------------|-----|-----------|--------|---------------------------|---|------------------|
| Water Testing Conductivity at 25 Degree C | micromhos/cm | - | 0.5 | 437 | No Standard | Standard Methods for the Examination of water and wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B | Rayong |

| Parameter | Unit | 0.01 | 0.1 | 2.03 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B |
|-----------------------------|------|------|-----|------|---|
| Total Organic Carbon | mg/L | - | - | - | No Standard |
| Total Petroleum Hydrocarbon | mg/L | - | - | <3 | No Standard |

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Record Registration of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction

Sampling by: Wanlop Hunchiraw

Report:

LCD : Lines of Detection
LCO : Lines of Control
LOD : Lines of Disposition / LOS (Lines of Succession)

Blasphemy is a crime against God, not against man, and it is not a crime against the state.

Plasma results are valid only for the actual blood sample(s) as indicated in this report. In part of this result is certificate may be requested to any time without written consent from the Laboratory. All Laboratory Group (Thailand) strongly recommends that this report is not transmitted except in full.

Approved by:  Dr. Chingchun
Senior Manager

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ภาคผนวก ค-6

คุณภาพอากาศในสภาพแวดล้อมการทำงาน



Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPL)

Lot ID: 23103007

Date Received : Sep 13, 2023
Date Reported : Sep 19, 2023
Report Number : 2763737-1

Page 1 of 3

Sample Number : 23103007-1
Sampled Date : Sep 13, 2023
Sample Description : Air Quality
Location : RM Preparation
Date Analysis Commenced : Sep 13, 2023
Condition of Sample : Drawn into one 10-L air sampling bag, one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 32.0 °C

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|------------------------------------|-------------------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Air Testing | | | | | | | | |
| Methane as Propane | ppm | - | 0.33 | 0.99 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | ppm | - | 0.33 | <0.33 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | ppm | - | 0.05 | <0.06 | 100 | Based on NIOSH (2003), 1501 | MOL | Bangkok |
| Total Dust | mg/m ³ | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 6500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | ppm | - | 0.33 | 0.99 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, n.e. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Apichart Wilas

Remark :
LOD : Limit of Detection
"c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita Kulbunwong
Scientist (4)

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Analysis / Test Report

Client : Sam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPL)

Lot ID: 23103007

Date Received : Sep 13, 2023
Date Reported : Sep 19, 2023
Report Number : 2763737-1

Page 2 of 3

Sample Number : 23103007-2
Sampled Date : Sep 13, 2023
Sample Description : Air Quality
Location : Finishing
Date Analysis Commenced : Sep 13, 2023
Condition of Sample : Drawn into one 10-L air sampling bag, one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 32.0 °C

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|------------------------------------|-------------------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Air Testing | | | | | | | | |
| Methane as Propane | ppm | - | 0.33 | 0.97 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | ppm | - | 0.33 | <0.33 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | MOL | Bangkok |
| Total Dust | mg/m ³ | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 6500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | ppm | - | 0.33 | 0.97 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, n.e. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Apichart Wilas

Remark :
LOD : Limit of Detection
"c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita Kulbunwong
Scientist (4)

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Analysis / Test Report

Client : Sam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand
21150
P/O : 4514159445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SPCL)

Lot ID: 23103007

Date Received : Sep 13, 2023
Date Reported : Sep 19, 2023
Report Number : 2763737-1

Page 3 of 3

Sample Number : 23103007-3
Sample Date : Sep 13, 2023
Sample Description : Air Quality
Location : Packaging
Date Analysis Commenced : Sep 13, 2023
Condition of Sample : Drawn into one 10-L air sampling bag, one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 32.0 °C

| Analyte | Sampled Date/Time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Testing Location |
|------------------------------------|---------------------|-------------------|-----|-----------|--------|-----------------|-----------------------------|------------------|
| Air Testing | | | | | | | | |
| Methane as Propane | 09:15 AM - 11:15 AM | ppm | - | 0.33 | 0.98 | No Standard | Total Hydrocarbon Analyzer | Rayong |
| Non Methane Hydrocarbon as Propane | 09:15 AM - 11:15 AM | ppm | - | 0.33 | <0.33 | No Standard | Total Hydrocarbon Analyzer | Rayong |
| Styrene | 09:15 AM - 11:15 AM | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | Bangkok |
| Total Dust | 09:15 AM - 11:15 AM | mg/m ³ | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0560 | Rayong |
| Total Hydrocarbon as Propane | 09:15 AM - 11:15 AM | ppm | - | 0.33 | 0.98 | No Standard | Total Hydrocarbon Analyzer | Rayong |

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Apichart Wilars

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOC (Limit of Reporting)

Approved by

Thanitak

Thanita Kusumwong
Scientist (4)

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TH-031 BML



Analysis / Test Report

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8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand
21150
P/O : 4514159445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SPCL)

Lot ID: 2388624

Date Received : Aug 18, 2023
Date Reported : Aug 31, 2023
Report Number : 2731376-1

Page 1 of 3

Sample Number : 2388624-2
Sample Date : Aug 17, 2023
Sample Description : Air Quality
Location : Polymerization
Date Analysis Commenced : Aug 21, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 32.0 °C

| Analyte | Sampled Date/Time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Testing Location |
|------------------------------------|---------------------|-------------------|-----|-----------|--------|-----------------|-----------------------------|------------------|
| Air Testing | | | | | | | | |
| Methane as Propane | 09:40 AM - 10:00 AM | ppm | - | 0.33 | 1.05 | No Standard | Total Hydrocarbon Analyzer | Rayong |
| Non Methane Hydrocarbon as Propane | 09:40 AM - 10:00 AM | ppm | - | 0.33 | 1.61 | No Standard | Total Hydrocarbon Analyzer | Rayong |
| Styrene | 09:40 AM - 11:40 AM | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | Bangkok |
| Total Dust | 09:40 AM - 11:40 AM | mg/m ³ | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0560 | Rayong |
| Total Hydrocarbon as Propane | 09:40 AM - 10:00 AM | ppm | - | 0.33 | 2.66 | No Standard | Total Hydrocarbon Analyzer | Rayong |

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Saksarn Jarasak

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOC (Limit of Reporting)

Approved by

Tanyatorn Mongkornjavit
Supervisor

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TH-031 BML



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 238624
Date Received : Aug 18, 2023
Date Reported : Aug 31, 2023
Report Number : 2731376-1

Page 2 of 2

| Sample Number | 238624-3 | | | | | | | | |
|------------------------------------|--|-------------------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Sampled Date | Aug 17, 2023 | | | | | | | | |
| Sample Description | Air Quality | | | | | | | | |
| Location | Devolatilization | | | | | | | | |
| Date Analysis Commenced | Aug 21, 2023 | | | | | | | | |
| Condition of Sample | Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated | | | | | | | | |
| Barometric Pressure | 757 mmHg | | | | | | | | |
| Atmospheric Temperature | 32.0 °C | | | | | | | | |
| Analyte | Sampled Date/Time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
| Air Testing | | | | | | | | | |
| Methane as Propane | 09:50 AM - 10:10 AM | ppm | - | 0.33 | 0.99 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | 09:50 AM - 10:10 AM | ppm | - | 0.33 | 0.56 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | 09:50 AM - 11:50 AM | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | MOL | Bangkok |
| Total Dust | 09:50 AM - 11:50 AM | mg/m ³ | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | 09:50 AM - 10:10 AM | ppm | - | 0.33 | 1.55 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Sakharin Jirasek

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Approved by

Tanyatorn Mongkoljirawat
Supervisor

The client hereby certifies that the sample was collected in accordance with the instructions provided by ALS. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. (ALS Laboratory Group (Thailand) Private Limited) has accepted the sample for analysis in accordance with the instructions provided by ALS.

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7813315846



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 23113447
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2750046-1

Page 1 of 1

| | | | | | | | | | |
|------------------------------------|--|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Sample Number | 23113447-1 | | | | | | | | |
| Sampled Date | Nov 13, 2023 | | | | | | | | |
| Sample Description | Air Quality | | | | | | | | |
| Location | RM Preparation | | | | | | | | |
| Date Analysis Commenced | Nov 15, 2023 | | | | | | | | |
| Condition of Sample | Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated | | | | | | | | |
| Barometric Pressure | 758 mmHg | | | | | | | | |
| Atmospheric Temperature | 32.0 °C | | | | | | | | |
| Analyte | Sampled Date/Time | Unit | LOD | LOQ (LOQ) | Result | Guideline Limit | Method | Guideline | Testing Location |
| Air Testing | | | | | | | | | |
| Methane as Propane | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 1.11 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 0.43 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | 10:00 AM - 12:00 PM | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | MCL | Bangkok |
| Total Dust | 10:00 AM - 12:00 PM | mg/m3 | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 1.54 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Natthaporn Jongsawadwong

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Approved by

Orawan Rakyoung
Scientist (3)

The client hereby certifies that the sample was collected in accordance with the instructions provided by ALS. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. (ALS Laboratory Group (Thailand) Private Limited) has accepted the sample for analysis in accordance with the instructions provided by ALS.

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RIGHT SOLUTIONS

7813315846



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand
21150
P/O : 451415845
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2790046-1

Lot ID: 23113447

Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 2 of 5

Sample Number : 23113447-2
Sample Date : Nov 13, 2023
Sample Description : Air Quality
Location : Polymerisation
Date Analysis Commenced : Nov 15, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one 10L air sampling bag and one solvent tube, refrigerated
Barometric Pressure : 758 mmHg
Atmospheric Temperature : 32.0 °C

| Analyte | Sampled Date/Time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|------------------------------------|---------------------|-------------------|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Air Testing | | | | | | | | |
| Methane as Propane | 10:00 AM - 10:20 AM | ppm | 0.33 | 1.11 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | 0.33 | 0.50 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | 10:00 AM - 12:00 PM | ppm | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | MCL | Bangkok |
| Total Dust | 10:00 AM - 12:00 PM | mg/m ³ | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | 0.33 | 1.61 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MCL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Natthapon Jitngwareewong

Remark :
- LOD : Limit of Detection
- < : Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.
Orawan Rayong
Scientist (3)

From the date of sampling to the date of analysis, unless the sampling was conducted by ALS, the test results may be affected by the change of the test method or the test equipment. The test results are for reference only. The test results are not for legal purpose.

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TH-001-001



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand
21150
P/O : 451415845
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2790046-1

Lot ID: 23113447

Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut PS (SPCL)

Page 3 of 5

Sample Number : 23113447-3
Sample Date : Nov 13, 2023
Sample Description : Air Quality
Location : Devolatilization
Date Analysis Commenced : Nov 15, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one 10L air sampling bag and one solvent tube, refrigerated
Barometric Pressure : 758 mmHg
Atmospheric Temperature : 32.0 °C

| Analyte | Sampled Date/Time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|------------------------------------|---------------------|-------------------|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Air Testing | | | | | | | | |
| Methane as Propane | 10:00 AM - 10:20 AM | ppm | 0.33 | 1.11 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | 0.33 | 0.44 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | 10:00 AM - 12:00 PM | ppm | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | MCL | Bangkok |
| Total Dust | 10:00 AM - 12:00 PM | mg/m ³ | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | 0.33 | 1.54 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MCL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA : Occupational Safety and Health Administration
Sampled By : Natthapon Jitngwareewong

Remark :
- LOD : Limit of Detection
- < : Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.
Orawan Rayong
Scientist (3)

From the date of sampling to the date of analysis, unless the sampling was conducted by ALS, the test results may be affected by the change of the test method or the test equipment. The test results are for reference only. The test results are not for legal purpose.

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TH-001-001



Analysis / Test Report

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SPCL)

Lot ID: 23113447

Date Received : Nov 13, 2023
Date Reported : Nov 22, 2023
Report Number : 2790046-1

Page 4 of 5

| | | | | | | | | | |
|-------------------------|--|---------------------|-------|-----------|--------|-----------------|----------------------------|-----------------------------|-------------|
| Sample Number | 23113447-4 | | | | | | | | |
| Sampled Date | Nov 13, 2023 | | | | | | | | |
| Sample Description | Air Quality | | | | | | | | |
| Location | Fishing | | | | | | | | |
| Date Analysis Commenced | Nov 15, 2023 | | | | | | | | |
| Condition of Sample | Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated | | | | | | | | |
| Barometric Pressure | 758 mmHg | | | | | | | | |
| Atmospheric Temperature | 32.0 °C | | | | | | | | |
| Analysis | Sampled Date/Time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Location | |
| Air Testing | | | | | | | | | |
| | | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 1.12 | No Standard | Total Hydrocarbon Analyzer | Rayong |
| | | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 1.00 | No Standard | Total Hydrocarbon Analyzer | Rayong |
| | | 10:00 AM - 12:00 PM | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | Bangkok |
| | | 10:00 AM - 12:00 PM | mg/m3 | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0500 | OSHA Rayong |
| | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 2.12 | No Standard | Total Hydrocarbon Analyzer | Rayong | |

Guideline :
MCL - Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA - Occupational Safety and Health Administration
Sampled By : Natthapon Jitngwaewong

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by
Orawan R.
Orawan Rayong
Scientist (3)

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2790046-1



Analysis / Test Report

Client : Siam Polyethylene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut, PS (SPCL)

Lot ID: 23113447

Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2790046-1

Page 5 of 5

| | | | | | | | | | |
|------------------------------------|--|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| Sample Number | 23113447-5 | | | | | | | | |
| Sampled Date | Nov 13, 2023 | | | | | | | | |
| Sample Description | Air Quality | | | | | | | | |
| Location | Packaging | | | | | | | | |
| Date Analysis Commenced | Nov 15, 2023 | | | | | | | | |
| Condition of Sample | Drawn into one filter paper placed in plastic cassette, one 10-L air sampling bag and one sorbent tube, refrigerated | | | | | | | | |
| Barometric Pressure | 758 mmHg | | | | | | | | |
| Atmospheric Temperature | 32.0 °C | | | | | | | | |
| Analysis | Sampled Date/Time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
| Air Testing | | | | | | | | | |
| Methane as Propane | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 1.11 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Non Methane Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 0.82 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |
| Styrene | 10:00 AM - 12:00 PM | ppm | - | 0.05 | <0.05 | 100 | Based on NIOSH (2003), 1501 | MCL | Bangkok |
| Total Dust | 10:00 AM - 12:00 PM | mg/m3 | - | 0.15 | <0.15 | 15 | Based on NIOSH (1994), 0500 | OSHA | Rayong |
| Total Hydrocarbon as Propane | 10:00 AM - 10:20 AM | ppm | - | 0.33 | 1.93 | No Standard | Total Hydrocarbon Analyzer | - | Rayong |

Guideline :
MCL - Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
OSHA - Occupational Safety and Health Administration
Sampled By : Natthapon Jitngwaewong

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by
Orawan R.
Orawan Rayong
Scientist (3)

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ภาคผนวก ค-7

ระดับเสียงในสถานที่ทำงาน



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_P5 (SPCL)
Lot ID: 2388625
Date Received : Aug 18, 2023
Date Reported : Aug 24, 2023
Report Number: 2750969-1

Page 1 of 1

| | |
|----------------------------|---|
| Sample Number | 2388625-1 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | MRIU |
| Measurement Date | Aug 17, 2023 |
| Measurement by | Sakarin Jarasak |
| Time | |
| 09:06 AM - 10:06 AM | 83.5 |
| 10:06 AM - 11:06 AM | 83.5 |
| 11:06 AM - 12:06 PM | 85.2 |
| 12:06 PM - 01:06 PM | 84.6 |
| 01:06 PM - 02:06 PM | 83.1 |
| 02:06 PM - 03:06 PM | 83.3 |
| 03:06 PM - 04:06 PM | 82.9 |
| 04:06 PM - 05:06 PM | 82.5 |
| Leq Average 8 hrs. (dB(A)) | 83.4 |
| Lmax (dB(A)) | 85.2 |
| Standard (dB(A)) | 90 |
| Reference Method | ISO 1996-1 and 1996-2 |
| Standard | กรมควบคุมมลพิษ (The Environmental Pollution Control Department) |

Technical Management
Tharitat.
Tharita Kulirwong
Scientist (4)

Approved by

Supt S.

Suppt Salammeh
Section Head

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778-31/ENAL



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, 1-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 4514158445
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_P5 (SPCL)
Lot ID: 2388625
Date Received : Aug 18, 2023
Date Reported : Aug 24, 2023
Report Number: 2750970-1

Page 1 of 1

| | |
|----------------------------|---|
| Sample Number | 2388625-2 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | Transfer Blower |
| Measurement Date | Aug 17, 2023 |
| Measurement by | Sakarin Jarasak |
| Time | |
| 09:18 AM - 10:18 AM | 80.3 |
| 10:18 AM - 11:18 AM | 83.5 |
| 11:18 AM - 12:18 PM | 82.8 |
| 12:18 PM - 01:18 PM | 77.1 |
| 01:18 PM - 02:18 PM | 77.2 |
| 02:18 PM - 03:18 PM | 82.6 |
| 03:18 PM - 04:18 PM | 83.9 |
| 04:18 PM - 05:18 PM | 77.4 |
| Leq Average 8 hrs. (dB(A)) | 81.4 |
| Lmax (dB(A)) | 84.6 |
| Standard (dB(A)) | 90 |
| Reference Method | ISO 1996-1 and 1996-2 |
| Standard | กรมควบคุมมลพิษ (The Environmental Pollution Control Department) |

Technical Management
Tharitat.
Tharita Kulirwong
Scientist (4)

Approved by

Supt S.

Suppt Salammeh
Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2388625
Date Received : Aug 18, 2023
Date Reported : Aug 24, 2023
Report Number: 2750971-1

Page 1 of 1

| | | | |
|---------------------|---------------------|--------------|-------------|
| Sample Number | 2388625-3 | | |
| Parameter | Noise (Leq 8 hrs.) | | |
| Location | Emergency Generator | | |
| Measurement Date | Aug 17, 2023 | | |
| Measurement by | Sakharin Jirakulay | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 09:30 AM - 10:30 AM | 83.6 | 88.1 | 81.1 |
| 10:30 AM - 11:30 AM | 84.2 | 87.8 | 81.5 |
| 11:30 AM - 12:30 PM | 84.2 | 88.2 | 80.7 |
| 12:30 PM - 01:30 PM | 85.5 | 89.3 | 81.6 |
| 01:30 PM - 02:30 PM | 84.7 | 92.0 | 81.6 |
| 02:30 PM - 03:30 PM | 84.0 | 87.1 | 81.6 |
| 03:30 PM - 04:30 PM | 82.9 | 86.0 | 81.3 |
| 04:30 PM - 05:30 PM | 83.9 | 93.3 | 80.4 |

Reference Method : ISO 1996-1 and 1996-2
Standard : กรมวิทยาศาสตร์สิ่งแวดล้อม กระทรวงวิทยาศาสตร์และเทคโนโลยี
Turn to the nearest integer in the last decimal place

Technical Management

Thanitak.

Approved by

Supt S.

Supot Salmitieh
Section Head

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S-Report_Lab Noise.pdf (10-08-24)

7781-31/ EMAIL



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map ta phut, Muang, Rayong Thailand 21150
P/O : 451415845
Project Name : Environmental Quality Monitoring
Project Location : Map Ta Phut_PS (SPCL)
Lot ID: 2388625
Date Received : Aug 18, 2023
Date Reported : Aug 24, 2023
Report Number: 2750972-1

Page 1 of 1

| | | | |
|---------------------|--------------------|--------------|-------------|
| Sample Number | 2388625-4 | | |
| Parameter | Noise (Leq 8 hrs.) | | |
| Location | Pollster | | |
| Measurement Date | Aug 17, 2023 | | |
| Measurement by | Sakharin Jirakulay | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 09:24 AM - 10:24 AM | 87.4 | 91.8 | 86.7 |
| 10:24 AM - 11:24 AM | 87.1 | 88.6 | 86.8 |
| 11:24 AM - 12:24 PM | 87.0 | 88.2 | 86.7 |
| 12:24 PM - 01:24 PM | 86.6 | 87.9 | 86.4 |
| 01:24 PM - 02:24 PM | 86.6 | 89.9 | 86.4 |
| 02:24 PM - 03:24 PM | 86.9 | 88.9 | 86.4 |
| 03:24 PM - 04:24 PM | 87.1 | 88.7 | 86.9 |
| 04:24 PM - 05:24 PM | 87.2 | 92.2 | 86.7 |

Reference Method : ISO 1996-1 and 1996-2
Standard : กรมวิทยาศาสตร์สิ่งแวดล้อม กระทรวงวิทยาศาสตร์และเทคโนโลยี
Turn to the nearest integer in the last decimal place

Technical Management

Thanitak.

Approved by

Supt S.

Supot Salmitieh
Section Head

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Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Lot ID: 23113449
Date Received : Nov 14, 2023
Date Reported : Nov 17, 2023
Report Number: 2836044-1

Page 1 of 1

Sample Number : 23113449-1
Parameter : Noise (Leq 8 hrs.)
Location : MRU
Measurement Date : Nov 13, 2023
Measurement by : Sawal Torpho

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:12 AM - 10:12 AM | 83.2 | 86.1 | 82.7 |
| 10:12 AM - 11:12 AM | 87.3 | 105.7 | 83.6 |
| 11:12 AM - 12:12 PM | 85.5 | 86.1 | 85.3 |
| 12:12 PM - 01:12 PM | 85.0 | 86.2 | 84.7 |
| 01:12 PM - 02:12 PM | 85.1 | 86.5 | 84.7 |
| 02:12 PM - 03:12 PM | 84.8 | 87.3 | 83.9 |
| 03:12 PM - 04:12 PM | 84.3 | 85.8 | 83.4 |
| 04:12 PM - 05:12 PM | 84.4 | 86.8 | 84.1 |

Leq Average 8 hrs. (dB(A)) : 85.1
Lmax (dB(A)) : 105.7
Standard (dB(A)) : 90
Reference Method : ISO 1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ (ฉบับแก้ไขเพิ่มเติมครั้งที่ 10 พ.ศ. 2560) หมวดที่ 10 การวัดและประเมินผลกระทบทางเสียง

Technical Management : *Thanitak*
Thana Kulsurong
Scientist (4)

Approved by : *Supt S.*
Supt. Salammah
Section Head

Address : 616/10 Moo 5 T. Maengkhon Khui A. Phakdang Rayong 21140 Thailand. P.O. Box 466 0 3104 8555 FAX 466 0 3104 8556
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778-111 PMNL

S. Vajrapoti_Air Noise rpt / 1.2 PMNL



Analysis / Test Report

Client : Siam Polystyrene Co., Ltd.
8, Map Ta Phut Industrial Estate, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 451415845
Lot ID: 23113449
Date Received : Nov 14, 2023
Date Reported : Nov 17, 2023
Report Number: 2836044-1

Page 1 of 1

Sample Number : 23113449-2
Parameter : Noise (Leq 8 hrs.)
Location : Transfer Blower
Measurement Date : Nov 13, 2023
Measurement by : Sawal Torpho

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:29 AM - 10:29 AM | 78.7 | 82.2 | 78.2 |
| 10:29 AM - 11:29 AM | 81.6 | 99.1 | 78.6 |
| 11:29 AM - 12:29 PM | 78.6 | 79.5 | 78.3 |
| 12:29 PM - 01:29 PM | 78.3 | 81.0 | 78.0 |
| 01:29 PM - 02:29 PM | 78.3 | 81.1 | 78.0 |
| 02:29 PM - 03:29 PM | 79.0 | 83.3 | 78.4 |
| 03:29 PM - 04:29 PM | 79.5 | 83.6 | 78.6 |
| 04:29 PM - 05:29 PM | 80.7 | 85.7 | 78.6 |

Leq Average 8 hrs. (dB(A)) : 79.5
Lmax (dB(A)) : 99.1
Standard (dB(A)) : 90
Reference Method : ISO 1996-1 and 1996-2
Standard : กรมควบคุมมลพิษ (ฉบับแก้ไขเพิ่มเติมครั้งที่ 10 พ.ศ. 2560) หมวดที่ 10 การวัดและประเมินผลกระทบทางเสียง

Technical Management : *Thanitak*
Thana Kulsurong
Scientist (4)

Approved by : *Supt S.*
Supt. Salammah
Section Head

Address : 616/10 Moo 5 T. Maengkhon Khui A. Phakdang Rayong 21140 Thailand. P.O. Box 466 0 3104 8555 FAX 466 0 3104 8556
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