

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 243135

Date Received : Jan 16, 2024

Date Reported : Jan 25, 2024

Report Number : 2881692-1

Page 1 of 3

Sample Number 243135-1
Sampled Date Jan 15, 2024
Sample Description Air Quality
Location พื้นที่โรงงาน
Date Analysis Commenced Jan 18, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	15/01/24 - 16/01/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 243135

Date Received : Jan 16, 2024

Date Reported : Jan 25, 2024

Report Number : 2881692-1

Page 2 of 3

Sample Number 243135-2
Sampled Date Jan 15, 2024
Sample Description Air Quality
Location วัดหนองแฟบทักษิณาราม
Date Analysis Commenced Jan 18, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	15/01/24 - 16/01/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Anurak Tongkhajonsakda

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P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 243135

Date Received : Jan 16, 2024

Date Reported : Jan 25, 2024

Report Number : 2881692-1

Page 3 of 3

Sample Number 243135-3
Sampled Date Jan 15, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced Jan 18, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	15/01/24 - 16/01/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	15/01/24 - 16/01/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Anurak Tongkhajonsakda

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 247077

Date Received : Feb 22, 2024
Date Reported : Mar 12, 2024
Report Number : 2928361-1 Rev. No.1

Page 1 of 3

Sample Number 247077-1
Sampled Date Feb 21, 2024
Sample Description Air Quality
Location พื้นที่โรงงาน (GPS 47P 0733471, 1406621)
Date Analysis Commenced Feb 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	21/02/24 - 22/02/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Note : This Analysis test report is reissued to supersede report No.2928361-1, Date Reported : Mar 06, 2024 due to revise sample information.

Sampled By : Apichart Wilars

Remark :

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 247077

Date Received : Feb 22, 2024
Date Reported : Mar 12, 2024
Report Number : 2928361-1 Rev. No.1

Page 2 of 3

Sample Number 247077-2
Sampled Date Feb 21, 2024
Sample Description Air Quality
Location วัดหนองแฟบทักษิณาราม (GPS 47P 0729823, 1403307)
Date Analysis Commenced Feb 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	21/02/24 - 22/02/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Note : This Analysis test report is reissued to supersede report No.2928361-1, Date Reported : Mar 06, 2024 due to revise sample information.

Sampled By : Apichart Wilars

Remark :

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P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 247077

Date Received : Feb 22, 2024

Date Reported : Mar 12, 2024

Report Number : 2928361-1 Rev. No.1

Page 3 of 3

Sample Number 247077-3
Sampled Date Feb 21, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735344, 1406682)
Date Analysis Commenced Feb 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	21/02/24 - 22/02/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	21/02/24 - 22/02/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Note : This Analysis test report is reissued to supersede report No.2928361-1, Date Reported : Mar 06, 2024 due to revise sample information.

Sampled By : Apichart Wilars

Remark :

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P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2417349

Date Received : Mar 28, 2024

Date Reported : Apr 08, 2024

Report Number : 2910680-1

Page 1 of 3

Sample Number 2417349-1
Sampled Date Mar 27, 2024
Sample Description Air Quality
Location พื้นที่โรงงาน
Date Analysis Commenced Mar 29, 2024
Condition of Sample Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	27/03/24 - 28/03/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Tinnakorn Kulchart

Remark :

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P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2417349

Date Received : Mar 28, 2024

Date Reported : Apr 08, 2024

Report Number : 2910680-1

Page 2 of 3

Sample Number 2417349-2
Sampled Date Mar 27, 2024
Sample Description Air Quality
Location วัดหนองแฟบทักษิณาราม
Date Analysis Commenced Mar 29, 2024
Condition of Sample Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	27/03/24 - 28/03/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Tinnakorn Kulchart

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P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2417349

Date Received : Mar 28, 2024

Date Reported : Apr 08, 2024

Report Number : 2910680-1

Page 3 of 3

Sample Number 2417349-3
Sampled Date Mar 27, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced Mar 29, 2024
Condition of Sample Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	27/03/24 - 28/03/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	27/03/24 - 28/03/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Tinnakorn Kulchart

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429708

Date Received : Apr 19, 2024
Date Reported : Apr 30, 2024
Report Number : 2937967-1

Page 1 of 3

Sample Number : 2429708-1
Sampled Date : Apr 18, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน
Date Analysis Commenced : Apr 20, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 759 mmHg
Atmospheric Temperature : 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	18/04/24 - 19/04/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Tarin Octjinda

Remark :

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429708

Date Received : Apr 19, 2024
Date Reported : Apr 30, 2024
Report Number : 2937967-1

Page 2 of 3

Sample Number : 2429708-2
Sampled Date : Apr 18, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม
Date Analysis Commenced : Apr 20, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 759 mmHg
Atmospheric Temperature : 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	18/04/24 - 19/04/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Tarin Octjinda

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429708

Date Received : Apr 19, 2024
Date Reported : Apr 30, 2024
Report Number : 2937967-1

Page 3 of 3

Sample Number : 2429708-3
Sampled Date : Apr 18, 2024
Sample Description : Air Quality
Location : โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced : Apr 20, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 759 mmHg
Atmospheric Temperature : 34.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	18/04/24 - 19/04/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	18/04/24 - 19/04/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Tarin Octjinda

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444093

Date Received : May 21, 2024
Date Reported : Jun 01, 2024
Report Number : 2969798-1

Page 1 of 3

Sample Number : 2444093-1
Sampled Date : May 20, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน
Date Analysis Commenced : May 23, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	20/05/24 - 21/05/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444093

Date Received : May 21, 2024

Date Reported : Jun 01, 2024

Report Number : 2969798-1

Page 2 of 3

Sample Number 2444093-2
Sampled Date May 20, 2024
Sample Description Air Quality
Location วัดหนองแฟบทักษิณาราม
Date Analysis Commenced May 23, 2024
Condition of Sample Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	20/05/24 - 21/05/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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8207-81/ EMAIL

S:\Reports_Air_Working_NGL.rpt (1:32PM)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444093

Date Received : May 21, 2024

Date Reported : Jun 01, 2024

Report Number : 2969798-1

Page 3 of 3

Sample Number 2444093-3
Sampled Date May 20, 2024
Sample Description Air Quality
Location โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced May 23, 2024
Condition of Sample Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	20/05/24 - 21/05/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	20/05/24 - 21/05/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Anurak Tongkhajonsakda

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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S:\Reports_Air_Working_NGL.rpt (1:32PM)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2459761

Date Received : Jun 19, 2024
Date Reported : Jun 28, 2024
Report Number : 3004017-1

Page 1 of 3

Sample Number : 2459761-1
Sampled Date : Jun 18, 2024
Sample Description : Air Quality
Location : พื้นที่โรงงาน
Date Analysis Commenced : Jun 20, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 753 mmHg
Atmospheric Temperature : 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	18/06/24 - 19/06/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Jakkarin Manwicha

Remark :

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

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2459761

Date Received : Jun 19, 2024
Date Reported : Jun 28, 2024
Report Number : 3004017-1

Page 2 of 3

Sample Number : 2459761-2
Sampled Date : Jun 18, 2024
Sample Description : Air Quality
Location : วัดหนองแฟบทักษิณาราม
Date Analysis Commenced : Jun 20, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 753 mmHg
Atmospheric Temperature : 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	18/06/24 - 19/06/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Jakkarin Manwicha

Remark :

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Orawan R.

Orawan Rakyong
Scientist (3)

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Client : Thai Polyethylene Co., Ltd.
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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2459761

Date Received : Jun 19, 2024
Date Reported : Jun 28, 2024
Report Number : 3004017-1

Page 3 of 3

Sample Number : 2459761-3
Sampled Date : Jun 18, 2024
Sample Description : Air Quality
Location : โรงเรียนบ้านมาบตาพุด (โศภณราษฎร์บูรณะ)
Date Analysis Commenced : Jun 20, 2024
Condition of Sample : Drawn into one 25-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 753 mmHg
Atmospheric Temperature : 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
1-Butene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
1-Hexene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok
Ethylene	18/06/24 - 19/06/24	ppm	-	1.0	<1.0	Based on ASTM, D 2712-23	Bangkok
n-Hexane	18/06/24 - 19/06/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok

Sampled By : Jakkarin Manwicha

Remark :

- LOD : Limit of Detection
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Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 243151

Date Received :Jan 16, 2024

Date Reported :Jan 22, 2024

Report Number :2881698-1

Page 1 of 2

Sample Number 243151-1
Parameter Wind Speed / Wind Direction
Location พื้นที่โรงงาน
Sampling Date Jan 15 - Jan 16, 2024
Sampling by Anurak Tongkhajonsakda

Time	Jan 15 - Jan 16, 2024			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.6	24.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.4	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.6	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	3.1	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.3	171.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.7	205.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.3	311.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.6	346.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.3	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.4	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.8	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.9	323.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.8	322.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.5	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.7	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.6	25.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 243151

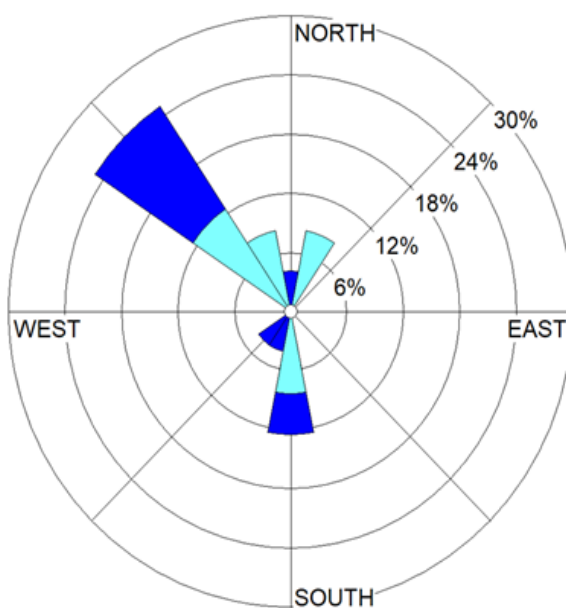
Date Received : Jan 16, 2024

Date Reported : Jan 22, 2024

Report Number : 2881698-1

Page 2 of 2

Wind Rose



Date : Jan 15-16, 2024

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	29.17
0.3-1.7	37.50
Calms	33.33

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Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 247080

Date Received :Feb 22, 2024

Date Reported :Mar 12, 2024

Report Number :2896035-1 Rev. No.1

Page 1 of 2

Sample Number 247080-1
Parameter Wind Speed / Wind Direction
Location พื้นที่โรงงาน (GPS 47P 0733471, 1406621)
Sampling Date Feb 21 - Feb 22, 2024
Sampling by Apichart Wilars

Time	Feb 21 - Feb 22, 2024			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.2	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.0	171.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.4	235.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.6	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.5	173.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	4.1	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.0	148.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.0	162.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.1	156.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.5	176.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.4	166.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.2	171.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.1	148.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.4	139.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.8	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.2	170.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.1	139.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.8	142.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	2.4	171.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.8	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.4	188.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.7	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.2	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.9	192.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 247080

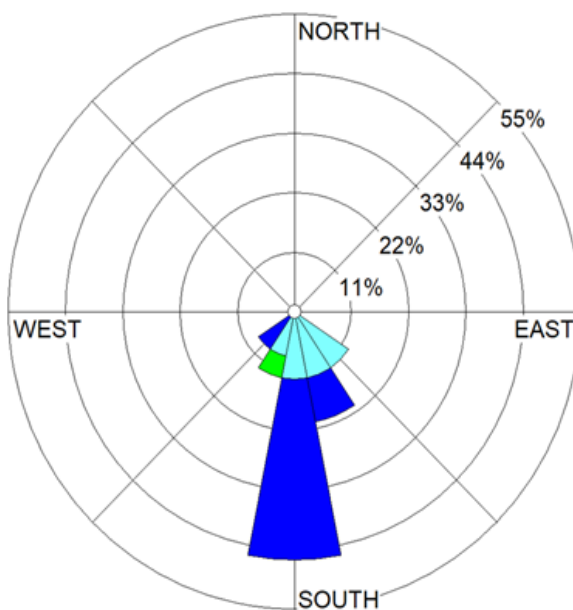
Date Received :Feb 22, 2024

Date Reported :Mar 12, 2024

Report Number :2896035-1 Rev. No.1

Page 2 of 2

Wind Rose



Date : Feb 21-22, 2024

	WS(m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	4.17
	1.7-3.3	50.00
	0.3-1.7	45.83
	Calms	0.00

Note : This Analysis test report is reissued to supersede report No.2896035-1, Date Reported : Feb 29, 2024 due to revise sample information.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2417351

Date Received : Mar 28, 2024

Date Reported : Apr 05, 2024

Report Number : 2910686-1

Page 1 of 2

Sample Number : 2417351-1
Parameter : Wind Speed / Wind Direction
Location : พื้นที่โรงงาน
Sampling Date : Mar 27 - Mar 28, 2024
Sampling by : Tinnakorn Kulchart

Time	Mar 27 - Mar 28, 2024			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
01:00 PM - 02:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.3	330.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.5	333.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.1	310.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	309.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.3	343.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	332.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.6	313.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.8	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.9	292.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	2.2	292.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.1	323.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.0	322.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	317.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.6	326.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.8	322.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2417351

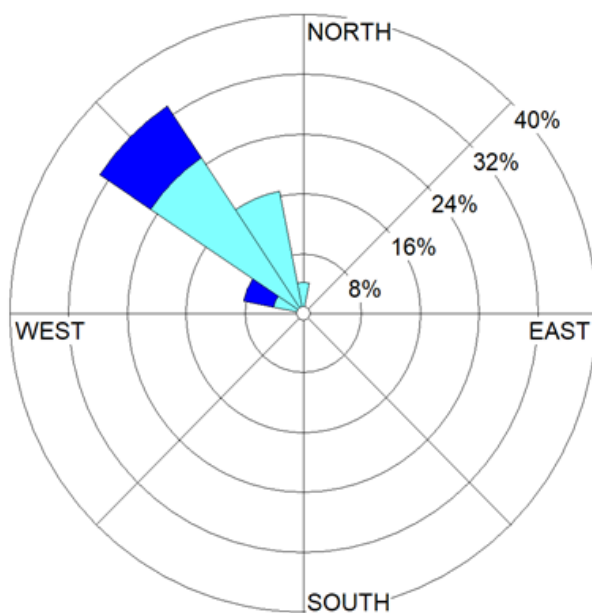
Date Received : Mar 28, 2024

Date Reported : Apr 05, 2024

Report Number : 2910686-1

Page 2 of 2

Wind Rose



Date : Mar 27-28, 2024

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	12.50
0.3-1.7	50.00
Calms	37.50

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Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2429711

Date Received : Apr 19, 2024

Date Reported : Apr 24, 2024

Report Number : 2937969-1

Page 1 of 2

Sample Number : 2429711-1
Parameter : Wind Speed / Wind Direction
Location : พื้นที่โรงงาน
Sampling Date : Apr 18 - Apr 19, 2024
Sampling by : Tarin Octjinda

Time	Apr 18 - Apr 19, 2024			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
09:00 AM - 10:00 AM	1.6	238.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.4	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	238.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.3	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	4.4	241.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.5	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.6	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.5	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.4	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.8	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	2.6	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.3	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.1	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	4.1	241.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	2.1	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.3	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.8	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.2	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.1	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	3.8	241.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.7	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.3	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.3	224.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.5	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2429711

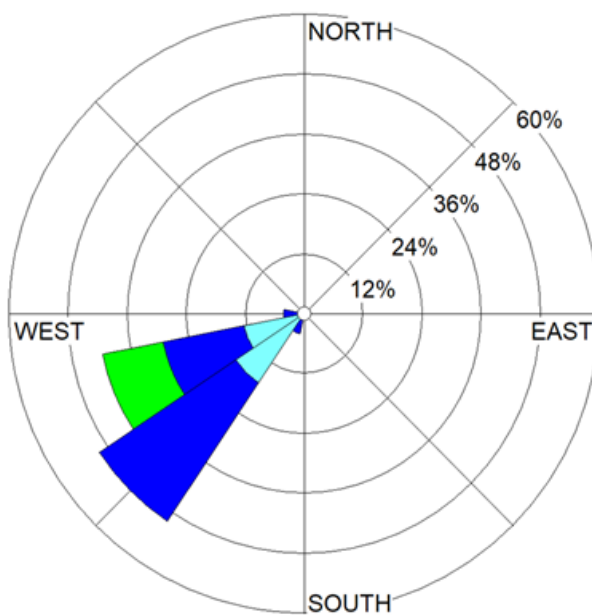
Date Received : Apr 19, 2024

Date Reported : Apr 24, 2024

Report Number : 2937969-1

Page 2 of 2

Wind Rose



Date : Apr 18-19, 2024

	WS(m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	12.50
	1.7-3.3	58.33
	0.3-1.7	29.17
	Calms	0.00

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

Lot ID: 2444096

Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number : 2969803-1

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Page 1 of 2

Sample Number : 2444096-1
Parameter : Wind Speed / Wind Direction
Location : พื้นที่โรงงาน
Sampling Date : May 20 - May 21, 2024
Sampling by : Anurak Tongkhajonsakda

Time	May 20 - May 21, 2024		-		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.6	219.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.5	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.5	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.9	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.6	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.4	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	204.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	325.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.9	313.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.8	120.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.3	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.9	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.8	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.6	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.9	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.3	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.6	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.8	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2444096

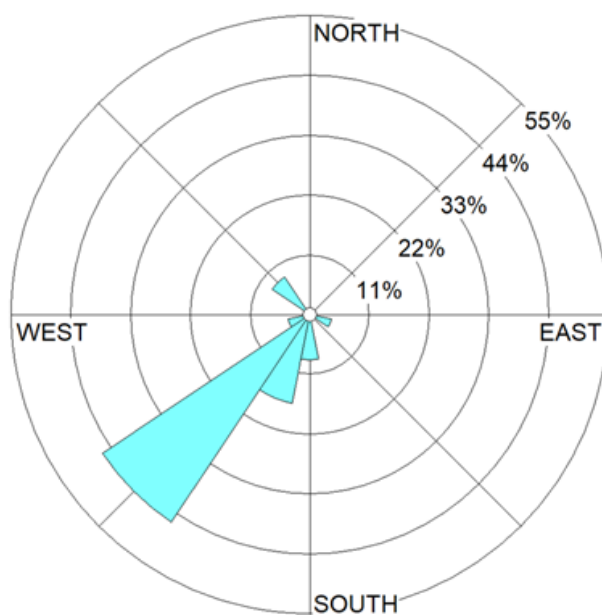
Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number : 2969803-1

Page 2 of 2

Wind Rose



Date : May 20-21, 2024

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	0.00
	1.7-3.3	0.00
	0.3-1.7	87.50
	Calms	12.50

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Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

Lot ID: 2459762

Date Received :Jun 20, 2024

Date Reported :Jun 24, 2024

Report Number :3004018-1

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Page 1 of 2

Sample Number 2459762-1
Parameter Wind Speed / Wind Direction
Location พื้นที่โรงงาน
Sampling Date Jun 18 - Jun 19, 2024
Sampling by Jakkarin Manwicha

Time	Jun 18 - Jun 19, 2024			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
12:00 PM - 01:00 PM	1.0	31.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.7	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.5	13.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	351.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.6	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	248.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.7	335.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	3.5	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.9	6.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.1	344.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	1.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.2	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.3	350.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	4.2	8.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.1	340.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.3	27.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.1	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.5	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.3	355.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.6	323.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : TPE Site 3

Lot ID: 2459762

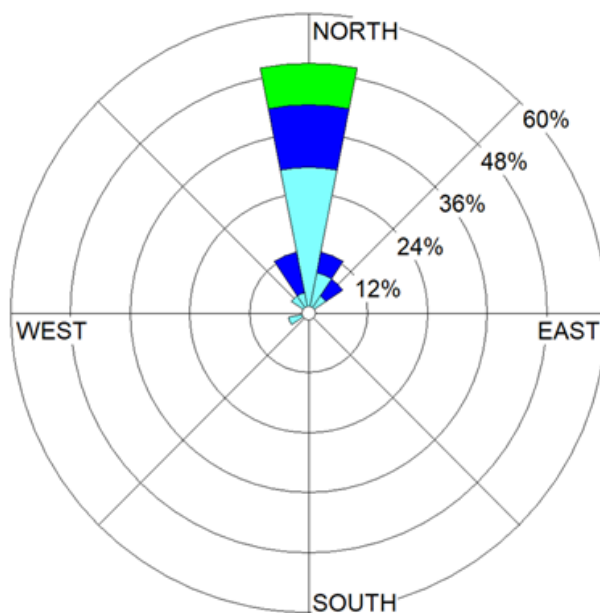
Date Received : Jun 20, 2024

Date Reported : Jun 24, 2024

Report Number : 3004018-1

Page 2 of 2

Wind Rose



Date : Jun 18-19, 2024

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	8.33
	1.7-3.3	29.17
	0.3-1.7	54.17
	Calms	8.33

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Approved by

Sarayuth Jittranont
Assistant General Manager

คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0042

Lot ID: 241201

Date Received : Jan 04, 2024

Date Reported : Jan 11, 2024

Report Number : 2877468-1

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE2

Page 1 of 2

Sample Number	241201-1
Sampled Date	Jan 04, 2024 9:31 AM
Sample Description	Wastewater
Location	HD2 : API Separator บ่อพักเก็บหลังการบำบัด
Date Analysis Commenced	Jan 04, 2024
Condition of Sample	Contained in one amber glass bottle, one BOD 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	26	≤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	12	≤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	11	≤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		-	-	8.2	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	-	-	27.1	≤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	1120	≤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. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE2

Lot ID: 241201

Date Received : Jan 04, 2024

Date Reported : Jan 11, 2024

Report Number : 2877468-1

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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (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. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE2

Lot ID: 241201

Date Received : Jan 04, 2024

Date Reported : Jan 11, 2024

Report Number : 2877468-2

Page 1 of 1

Sample Number	241201-1
Sampled Date	Jan 04, 2024 9:31 AM
Sample Description	Wastewater
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด
Date Analysis Commenced	Jan 05, 2024
Condition of Sample	Contained in one amber glass bottle, one BOD 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							
Dissolved Oxygen	mg/L	-	0.1	7.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 243108

Date Received : Feb 08, 2024

Date Reported : Feb 15, 2024

Report Number : 2881657-1

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Page 1 of 2

Sample Number	243108-1
Sampled Date	Feb 08, 2024 10:03 AM
Sample Description	Wastewater
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด
Date Analysis Commenced	Feb 08, 2024
Condition of Sample	Contained in one BOD bottle, 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	8.1	≤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	30	≤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	23	≤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	21	≤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		-	-	9.0	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	-	-	28.7	≤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	852	≤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. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE2

Lot ID: 243108

Date Received : Feb 08, 2024

Date Reported : Feb 15, 2024

Report Number : 2881657-1

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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 243108

Date Received : Feb 08, 2024
Date Reported : Feb 15, 2024
Report Number : 2881657-2

Page 1 of 1

Sample Number	243108-1						
Sampled Date	Feb 08, 2024 10:03 AM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด						
Date Analysis Commenced	Feb 10, 2024						
Condition of Sample	Contained in one BOD bottle, 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							
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2417386

Date Received : Mar 21, 2024

Date Reported : Mar 28, 2024

Report Number : 2910764-1

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Page 1 of 2

Sample Number	2417386-1						
Sampled Date	Mar 21, 2024 2:40 PM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อพักเก็บหลังการบำบัด						
Date Analysis Commenced	Mar 21, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD 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	<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	15	≤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	14	≤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		-	-	8.1	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	-	-	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	180	≤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	11	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE2

TESTING

No.0042

Lot ID: 2417386

Date Received : Mar 21, 2024

Date Reported : Mar 28, 2024

Report Number : 2910764-1

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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

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

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2417386

Date Received : Mar 21, 2024

Date Reported : Mar 28, 2024

Report Number : 2910764-2

Page 1 of 1

Sample Number	2417386-1						
Sampled Date	Mar 21, 2024 2:40 PM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด						
Date Analysis Commenced	Mar 23, 2024						
Condition of Sample	Contained in one amber glass bottle, one BOD 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							
Dissolved Oxygen	mg/L	-	0.1	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2429713

Date Received : Apr 04, 2024

Date Reported : Apr 11, 2024

Report Number : 2937970-1

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Page 1 of 2

Sample Number	2429713-1						
Sampled Date	Apr 04, 2024 9:51 AM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อพักเก็บหลังการบำบัด						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle, 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	<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	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	18	≤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	-	-	30.1	≤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	318	≤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. Banongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE2

TESTING

No.0042

Lot ID: 2429713

Date Received : Apr 04, 2024

Date Reported : Apr 11, 2024

Report Number : 2937970-1

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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2429713

Date Received : Apr 04, 2024

Date Reported : Apr 11, 2024

Report Number : 2937970-2

Page 1 of 1

Sample Number	2429713-1						
Sampled Date	Apr 04, 2024 9:51 AM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด						
Date Analysis Commenced	Apr 05, 2024						
Condition of Sample	Contained in one BOD bottle, 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							
Dissolved Oxygen	mg/L	-	0.1	5.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2444126

Date Received : May 21, 2024

Date Reported : May 29, 2024

Report Number : 2969886-1

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Page 1 of 2

Sample Number	2444126-1
Sampled Date	May 21, 2024 10:10 AM
Sample Description	Wastewater
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด
Date Analysis Commenced	May 21, 2024
Condition of Sample	Contained in one amber glass bottle, two BOD 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	<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	<5	≤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	<5	≤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 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	156	≤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

Chontichak

Chonticha Subongkoch
Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE2

TESTING

No.0042

Lot ID: 2444126

Date Received : May 21, 2024

Date Reported : May 29, 2024

Report Number : 2969886-1

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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005

Remark :

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Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444126

Date Received : May 21, 2024

Date Reported : May 29, 2024

Report Number : 2969886-2

Page 1 of 1

Sample Number	2444126-1						
Sampled Date	May 21, 2024 10:10 AM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด						
Date Analysis Commenced	May 24, 2024						
Condition of Sample	Contained in one amber glass bottle, two BOD 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							
Dissolved Oxygen	mg/L	-	0.1	6.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 : Sansoen Khuiyoksui

Remark :

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2460082

Date Received : Jun 06, 2024

Date Reported : Jun 13, 2024

Report Number : 3004546-1

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Page 1 of 2

Sample Number	2460082-1
Sampled Date	Jun 06, 2024 9:35 AM
Sample Description	Wastewater
Location	HD2 : API Separator บ่อพักเก็บหลังการบำบัด
Date Analysis Commenced	Jun 06, 2024
Condition of Sample	Contained in two BOD bottles, 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	<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	<5	≤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	<5	≤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		-	-	7.4	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	-	-	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	168	≤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

Chontichak

Chonticha Subongkoch
Scientist (3)

ทะเบียนเลขที่ จ-323-จ-9449

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location: HDPE2

TESTING

No.0042

Lot ID: 2460082

Date Received : Jun 06, 2024

Date Reported : Jun 13, 2024

Report Number : 3004546-1

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 : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

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Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2460082

Date Received : Jun 06, 2024

Date Reported : Jun 13, 2024

Report Number : 3004546-2

Page 1 of 1

Sample Number	2460082-1						
Sampled Date	Jun 06, 2024 9:35 AM						
Sample Description	Wastewater						
Location	HD2 : API Separator บ่อกักเก็บหลังการบำบัด						
Date Analysis Commenced	Jun 07, 2024						
Condition of Sample	Contained in two BOD bottles, 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							
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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 : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010618-1

Page 1 of 1

Sample Number	2429715-1
Sampled Date	May 29, 2024 2:00 PM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 1 MW1 : HDPE2
Date Analysis Commenced	May 29, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	5.3	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	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

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

- LOD : Limit of Detection
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Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024
Date Reported : Jun 06, 2024
Report Number : 3010618-2

Page 1 of 1

Sample Number	2429715-1						
Sampled Date	May 29, 2024 2:00 PM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 1 MW1 : HDPE2						
Date Analysis Commenced	May 30, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, n-Heneicosane, n-Docosane, n-Tricosane, n-Tetracosane, n-Pentacosane, n-Hexacosane, n-Heptacosane, n-Octacosane, n-Nonacosane, n-Triacontane, n-Hentriacontane, n-Dotriacontane, n-Tritriacontane, n-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010619-1

Page 1 of 1

Sample Number	2429715-2
Sampled Date	May 29, 2024 11:40 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 2 MW2 : HDPE3
Date Analysis Commenced	May 29, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	4.6	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	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

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010619-2

Page 1 of 1

Sample Number	2429715-2						
Sampled Date	May 29, 2024 11:40 AM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 2 MW2 : HDPE3						
Date Analysis Commenced	May 30, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, n-Heneicosane, n-Docosane, n-Tricosane, n-Tetracosane, n-Pentacosane, n-Hexacosane, n-Heptacosane, n-Octacosane, n-Nonacosane, n-Triacontane, n-Hentriacontane, n-Dotriacontane, n-Tritriacontane, n-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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Technical Management

Nant Somb

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Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010620-1

Page 1 of 1

Sample Number	2429715-3						
Sampled Date	May 29, 2024 12:30 PM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 3 MW3 : HDPE2						
Date Analysis Commenced	May 29, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	4.5	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	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

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างให้เปรียบเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อเหนือน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010620-2

Page 1 of 1

Sample Number	2429715-3
Sampled Date	May 29, 2024 12:30 PM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 3 MW3 : HDPE2
Date Analysis Commenced	May 30, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, n-Heneicosane, n-Docosane, n-Tricosane, n-Tetracosane, n-Pentacosane, n-Hexacosane, n-Heptacosane, n-Octacosane, n-Nonacosane, n-Triacontane, n-Hentriacontane, n-Dotriacontane, n-Tritriacontane, n-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010621-1

Page 1 of 1

Sample Number	2429715-4
Sampled Date	May 29, 2024 10:50 AM
Sample Description	Groundwater
Location	บ่อสังเกตการณ์ 4 MW4 : HDPE3
Date Analysis Commenced	May 29, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	5.1	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	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

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Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2429715

Date Received : May 29, 2024

Date Reported : Jun 06, 2024

Report Number : 3010621-2

Page 1 of 1

Sample Number	2429715-4						
Sampled Date	May 29, 2024 10:50 AM						
Sample Description	Groundwater						
Location	บ่อสังเกตการณ์ 4 MW4 : HDPE3						
Date Analysis Commenced	May 30, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/L	-	0.001	<0.001	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/L	-	0.05	<0.05	0.1	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C>8-C16	mg/L	-	0.05	<0.05	1.7	United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C5-C8	mg/L	-	0.01	<0.01	1.4	United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

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

Note : TPH C5-C8: Sum of n-Pentane, n-Hexane, n-Heptane and n-Octane
TPH C>8-C16: Sum of n-Nonane, n-Decane, n-Undecane, n-Dodecane, n-Tridecane, n-Tetradecane, n-Pentadecane and n-Hexadecane
TPH C>16-C35: Sum of n-Heptadecane, Pristane, n-Octadecane, Phytane, n-Nonadecane, n-Eicosane, n-Heneicosane, n-Docosane, n-Tricosane, n-Tetracosane, n-Pentacosane, n-Hexacosane, n-Heptacosane, n-Octacosane, n-Nonacosane, n-Triacontane, n-Hentriacontane, n-Dotriacontane, n-Tritriacontane, n-Tetratriacontane and n-Pentatriacontane
Integration mode: Peak to Peak

Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457 , Samart Khumplee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 2
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445211-1

Page 1 of 1

Sample Number 2296946-1
Sampled Date Sep 15, 2022 9:50 AM
Sample Description Soil
Location บ่อสังเคราะห์ 4 MW4 HDPE3 30 cm
Date Analysis Commenced Sep 16, 2022
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

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

Sampled By : Thanasoun Namakunna

Remark :

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

Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445211-2

Page 1 of 1

Sample Number 2296946-1
Sampled Date Sep 15, 2022 9:50 AM
Sample Description Soil
Location บ่อสังเคราะห์ 4 MW4 HDPE3 30 cm
Date Analysis Commenced Sep 16, 2022
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.6	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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Approved by

Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445212-1

Page 1 of 1

Sample Number	2296946-2
Sampled Date	Sep 15, 2022 10:00 AM
Sample Description	Soil
Location	บ่อสังเกตราดน้ำ 4 MW4 HDPE3 1.5 m
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

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

Sampled By : Thanasoun Namakunna

Remark :

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Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445212-2

Page 1 of 1

Sample Number	2296946-2
Sampled Date	Sep 15, 2022 10:00 AM
Sample Description	Soil
Location	บ่อสังเกตราดน้ำ 4 MW4 HDPE3 1.5 m
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.6	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445213-1

Page 1 of 1

Sample Number	2296946-3
Sampled Date	Sep 15, 2022 12:20 PM
Sample Description	Soil
Location	บ่อสังเคราะห์ 2 MW2 : HDPE3 30 cm
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

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

Sampled By : Thanasoun Namakunna

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Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#3

Lot ID: 2296946

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445213-2

Page 1 of 1

Sample Number	2296946-3
Sampled Date	Sep 15, 2022 12:20 PM
Sample Description	Soil
Location	บ่อสังเคราะห์ 2 MW2 : HDPE3 30 cm
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	6.8	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445208-1

Page 1 of 1

Sample Number	2296953-1
Sampled Date	Sep 15, 2022 10:30 AM
Sample Description	Soil
Location	บ่อสังเกตราดน้ำ 3 MW3 HDPE2 30 cm.
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

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

Sampled By : Thanasoun Namakunna

Remark :

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Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445208-2

Page 1 of 1

Sample Number 2296953-1
Sampled Date Sep 15, 2022 10:30 AM
Sample Description Soil
Location บ่อสังเคราะห์ 3 MW3 HDPE2 30 cm.
Date Analysis Commenced Sep 16, 2022
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	8.2	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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Narin Saiseng
Supervisor



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445209-1

Page 1 of 1

Sample Number	2296953-2
Sampled Date	Sep 15, 2022 10:40 AM
Sample Description	Soil
Location	บ่อสังเกตราดน้ำ 3 MW3 HDPE2 3 m.
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	<5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

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

Sampled By : Thanasoun Namakunna

Remark :

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Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445209-2

Page 1 of 1

Sample Number 2296953-2
Sampled Date Sep 15, 2022 10:40 AM
Sample Description Soil
Location บ่อสังเคราะห์ 3 MW3 HDPE2 3 m.
Date Analysis Commenced Sep 16, 2022
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.1	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

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271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445210-1

Page 1 of 1

Sample Number	2296953-3
Sampled Date	Sep 15, 2022 11:30 AM
Sample Description	Soil
Location	บ่อสังเคราะห์ 1 MW1 : HDPE2 30 cm.
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
n-Hexane	mg/kg	-	0.2	<0.2	1000	Based on US EPA, Method 5035 and 8260D	Bangkok
Petroleum Hydrocarbons							
TPH C>16-C35	mg/kg	-	5	5	8.0	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C>8-C16	mg/kg	-	10	<10	25	Based on US EPA, Method 3570 and 8015B	Bangkok
TPH C5-C8	mg/kg	-	5	<5	25	Based on US EPA, Method 5035 and 8260D	Bangkok

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

Sampled By : Thanasoun Namakunna

Remark :

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Technical Management

Narin Saiseng

Supervisor

ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location: HDPE#2

Lot ID: 2296953

Date Received : Sep 15, 2022

Date Reported : Sep 24, 2022

Report Number : 2445210-2

Page 1 of 1

Sample Number	2296953-3
Sampled Date	Sep 15, 2022 11:30 AM
Sample Description	Soil
Location	บ่อสังเกตราดน้ำ 1 MW1 : HDPE2 30 cm.
Date Analysis Commenced	Sep 16, 2022
Condition of Sample	Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	8.3	No Standard	Based on US EPA, Method 9045D	Bangkok

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

Sampled By : Thanasoun Namakunna

Remark :

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ระดับเสียงเฉลี่ย 24 ชั่วโมง



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010626-1

Page 1 of 1

Sample Number 2444098-1
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735353, 1406703)
Measurement Date May 13 - May 14, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.6	81.6	47.3
12:00 PM - 01:00 PM	56.0	90.1	46.6
01:00 PM - 02:00 PM	50.0	70.1	45.0
02:00 PM - 03:00 PM	64.7	79.4	46.7
03:00 PM - 04:00 PM	56.3	74.0	49.2
04:00 PM - 05:00 PM	49.3	70.2	45.9
05:00 PM - 06:00 PM	49.0	71.3	46.1
06:00 PM - 07:00 PM	48.6	64.6	45.9
07:00 PM - 08:00 PM	47.1	60.7	44.0
08:00 PM - 09:00 PM	54.0	65.7	42.0
09:00 PM - 10:00 PM	59.9	74.3	40.1
10:00 PM - 11:00 PM	52.1	73.7	39.3
11:00 PM - 12:00 AM	47.8	72.2	40.0
12:00 AM - 01:00 AM	45.8	72.1	40.2
01:00 AM - 02:00 AM	41.2	60.7	37.2
02:00 AM - 03:00 AM	46.9	66.3	38.1
03:00 AM - 04:00 AM	53.2	74.9	42.8
04:00 AM - 05:00 AM	52.7	75.4	46.3
05:00 AM - 06:00 AM	50.6	71.4	46.3
06:00 AM - 07:00 AM	50.3	70.7	45.3
07:00 AM - 08:00 AM	51.8	69.0	45.7
08:00 AM - 09:00 AM	50.3	76.6	45.3
09:00 AM - 10:00 AM	51.0	71.7	45.7
10:00 AM - 11:00 AM	51.9	70.1	46.9

Leq Average 24 hrs. (dB(A)) 54.7
Lmax (dB(A)) 90.1
L90 (dB(A)) 45.3
Ldn (dB(A)) 58.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010627-1

Page 1 of 1

Sample Number 2444098-2
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735353, 1406703)
Measurement Date May 14 - May 15, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.1	74.3	46.7
12:00 PM - 01:00 PM	51.6	71.1	45.8
01:00 PM - 02:00 PM	51.0	68.5	45.4
02:00 PM - 03:00 PM	51.2	71.0	46.2
03:00 PM - 04:00 PM	49.7	69.3	44.6
04:00 PM - 05:00 PM	48.2	65.8	44.4
05:00 PM - 06:00 PM	48.9	66.8	44.8
06:00 PM - 07:00 PM	47.2	65.0	42.4
07:00 PM - 08:00 PM	47.4	68.2	42.0
08:00 PM - 09:00 PM	49.2	71.1	41.1
09:00 PM - 10:00 PM	48.2	69.9	43.5
10:00 PM - 11:00 PM	47.0	66.4	43.3
11:00 PM - 12:00 AM	48.2	61.6	42.5
12:00 AM - 01:00 AM	51.3	62.3	48.6
01:00 AM - 02:00 AM	46.8	58.0	44.2
02:00 AM - 03:00 AM	49.6	63.3	44.3
03:00 AM - 04:00 AM	53.0	74.2	47.8
04:00 AM - 05:00 AM	52.6	73.7	47.7
05:00 AM - 06:00 AM	51.0	72.5	46.0
06:00 AM - 07:00 AM	51.5	69.5	46.5
07:00 AM - 08:00 AM	55.2	71.8	47.2
08:00 AM - 09:00 AM	51.7	73.3	45.8
09:00 AM - 10:00 AM	52.5	71.0	45.4
10:00 AM - 11:00 AM	52.5	77.2	46.1

Leq Average 24 hrs. (dB(A)) 50.9
Lmax (dB(A)) 77.2
L90 (dB(A)) 45.4
Ldn (dB(A)) 57.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010628-1

Page 1 of 1

Sample Number 2444098-3
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735353, 1406703)
Measurement Date May 15 - May 16, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.4	81.6	46.7
12:00 PM - 01:00 PM	50.1	68.6	46.2
01:00 PM - 02:00 PM	51.4	71.1	46.0
02:00 PM - 03:00 PM	49.8	68.9	44.6
03:00 PM - 04:00 PM	51.7	77.6	47.0
04:00 PM - 05:00 PM	48.9	69.0	44.6
05:00 PM - 06:00 PM	48.8	68.1	43.6
06:00 PM - 07:00 PM	46.6	64.8	42.4
07:00 PM - 08:00 PM	46.5	69.2	42.2
08:00 PM - 09:00 PM	46.3	67.5	42.3
09:00 PM - 10:00 PM	48.0	68.7	44.5
10:00 PM - 11:00 PM	46.0	58.8	40.6
11:00 PM - 12:00 AM	43.2	60.7	37.9
12:00 AM - 01:00 AM	45.8	55.7	41.6
01:00 AM - 02:00 AM	47.3	59.2	44.9
02:00 AM - 03:00 AM	51.4	70.7	43.2
03:00 AM - 04:00 AM	53.1	73.5	46.3
04:00 AM - 05:00 AM	55.7	71.2	50.7
05:00 AM - 06:00 AM	67.0	82.4	53.1
06:00 AM - 07:00 AM	63.6	81.9	52.5
07:00 AM - 08:00 AM	58.8	71.0	49.8
08:00 AM - 09:00 AM	59.6	75.3	51.3
09:00 AM - 10:00 AM	66.2	79.5	62.2
10:00 AM - 11:00 AM	51.0	64.6	48.8

Leq Average 24 hrs. (dB(A)) 58.0
Lmax (dB(A)) 82.4
L90 (dB(A)) 44.9
Ldn (dB(A)) 65.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010629-1

Page 1 of 1

Sample Number 2444098-4
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภนราษฎร์รังสรรค์) (GPS 47P 0735353, 1406703)
Measurement Date May 16 - May 17, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.8	73.3	51.9
12:00 PM - 01:00 PM	56.5	73.8	52.5
01:00 PM - 02:00 PM	58.3	78.0	51.5
02:00 PM - 03:00 PM	54.0	72.7	48.3
03:00 PM - 04:00 PM	50.9	69.7	46.2
04:00 PM - 05:00 PM	49.8	65.5	46.8
05:00 PM - 06:00 PM	50.0	69.1	46.9
06:00 PM - 07:00 PM	49.1	68.3	46.6
07:00 PM - 08:00 PM	48.7	66.8	45.8
08:00 PM - 09:00 PM	46.9	63.2	44.3
09:00 PM - 10:00 PM	46.9	65.5	44.0
10:00 PM - 11:00 PM	49.6	68.5	42.9
11:00 PM - 12:00 AM	48.5	68.8	43.1
12:00 AM - 01:00 AM	50.6	80.9	44.2
01:00 AM - 02:00 AM	51.9	80.3	44.0
02:00 AM - 03:00 AM	51.4	79.7	45.9
03:00 AM - 04:00 AM	50.5	81.3	43.7
04:00 AM - 05:00 AM	48.8	74.9	42.7
05:00 AM - 06:00 AM	49.8	79.9	43.3
06:00 AM - 07:00 AM	48.0	73.2	43.1
07:00 AM - 08:00 AM	49.1	77.2	43.3
08:00 AM - 09:00 AM	51.3	78.0	42.9
09:00 AM - 10:00 AM	54.7	79.8	44.8
10:00 AM - 11:00 AM	54.5	69.8	50.4

Leq Average 24 hrs. (dB(A)) 52.3
Lmax (dB(A)) 81.3
L90 (dB(A)) 44.3
Ldn (dB(A)) 57.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010630-1

Page 1 of 1

Sample Number 2444098-5
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735353, 1406703)
Measurement Date May 17 - May 18, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	54.2	70.9	50.6
12:00 PM - 01:00 PM	52.2	76.5	46.2
01:00 PM - 02:00 PM	56.5	81.1	49.2
02:00 PM - 03:00 PM	55.8	85.8	49.1
03:00 PM - 04:00 PM	49.6	73.8	44.9
04:00 PM - 05:00 PM	47.2	72.9	42.7
05:00 PM - 06:00 PM	52.2	82.0	43.0
06:00 PM - 07:00 PM	51.2	72.9	44.9
07:00 PM - 08:00 PM	49.2	80.0	43.8
08:00 PM - 09:00 PM	51.1	73.6	43.6
09:00 PM - 10:00 PM	48.4	71.2	41.9
10:00 PM - 11:00 PM	49.1	68.5	40.8
11:00 PM - 12:00 AM	51.6	75.0	41.2
12:00 AM - 01:00 AM	51.9	71.5	40.2
01:00 AM - 02:00 AM	53.5	72.7	48.9
02:00 AM - 03:00 AM	52.5	77.9	41.6
03:00 AM - 04:00 AM	50.3	81.4	40.3
04:00 AM - 05:00 AM	54.5	81.3	46.3
05:00 AM - 06:00 AM	57.4	85.2	45.2
06:00 AM - 07:00 AM	49.8	75.1	42.5
07:00 AM - 08:00 AM	44.3	73.1	40.5
08:00 AM - 09:00 AM	48.6	74.7	44.6
09:00 AM - 10:00 AM	58.0	74.7	54.4
10:00 AM - 11:00 AM	61.4	82.1	45.2

Leq Average 24 hrs. (dB(A)) 53.9
Lmax (dB(A)) 85.8
L90 (dB(A)) 43.8
Ldn (dB(A)) 59.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010631-1

Page 1 of 1

Sample Number 2444098-6
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735353, 1406703)
Measurement Date May 18 - May 19, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.4	86.2	52.4
12:00 PM - 01:00 PM	62.9	86.7	43.7
01:00 PM - 02:00 PM	62.2	88.6	45.2
02:00 PM - 03:00 PM	65.0	75.8	55.4
03:00 PM - 04:00 PM	57.0	72.0	45.5
04:00 PM - 05:00 PM	62.2	76.6	52.8
05:00 PM - 06:00 PM	64.8	78.4	48.9
06:00 PM - 07:00 PM	64.1	75.9	48.2
07:00 PM - 08:00 PM	64.8	78.4	47.4
08:00 PM - 09:00 PM	53.1	76.2	42.4
09:00 PM - 10:00 PM	46.8	65.3	40.7
10:00 PM - 11:00 PM	44.4	61.7	39.7
11:00 PM - 12:00 AM	43.0	60.4	39.4
12:00 AM - 01:00 AM	46.6	67.0	40.8
01:00 AM - 02:00 AM	46.3	68.7	40.6
02:00 AM - 03:00 AM	47.5	63.1	45.4
03:00 AM - 04:00 AM	48.1	70.2	44.0
04:00 AM - 05:00 AM	49.5	64.4	46.7
05:00 AM - 06:00 AM	49.9	71.2	45.9
06:00 AM - 07:00 AM	50.9	69.2	46.1
07:00 AM - 08:00 AM	49.2	69.2	43.8
08:00 AM - 09:00 AM	49.1	67.4	44.3
09:00 AM - 10:00 AM	52.9	74.2	46.9
10:00 AM - 11:00 AM	50.8	84.2	45.3

Leq Average 24 hrs. (dB(A)) 59.3
Lmax (dB(A)) 88.6
L90 (dB(A)) 45.3
Ldn (dB(A)) 60.2
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010632-1

Page 1 of 1

Sample Number 2444098-7
Parameter Noise (Leq 24 hrs.)
Location โรงเรียนวัดมาบตาพุด (โศภณราษฎร์บูรณะ) (GPS 47P 0735353, 1406703)
Measurement Date May 19 - May 20, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.9	71.2	45.2
12:00 PM - 01:00 PM	51.7	74.6	46.9
01:00 PM - 02:00 PM	51.4	77.6	46.1
02:00 PM - 03:00 PM	49.9	66.4	45.4
03:00 PM - 04:00 PM	49.9	65.9	46.1
04:00 PM - 05:00 PM	50.5	70.9	45.1
05:00 PM - 06:00 PM	49.5	67.8	44.7
06:00 PM - 07:00 PM	48.6	69.9	44.6
07:00 PM - 08:00 PM	48.5	70.8	44.0
08:00 PM - 09:00 PM	48.3	68.3	42.9
09:00 PM - 10:00 PM	44.2	61.8	40.1
10:00 PM - 11:00 PM	43.3	60.3	39.6
11:00 PM - 12:00 AM	44.6	71.1	39.7
12:00 AM - 01:00 AM	44.2	64.0	39.2
01:00 AM - 02:00 AM	46.8	60.0	44.6
02:00 AM - 03:00 AM	47.1	60.7	44.9
03:00 AM - 04:00 AM	48.2	57.0	46.1
04:00 AM - 05:00 AM	51.9	67.2	47.8
05:00 AM - 06:00 AM	54.8	76.1	48.8
06:00 AM - 07:00 AM	62.4	78.4	56.3
07:00 AM - 08:00 AM	68.4	82.0	51.0
08:00 AM - 09:00 AM	56.8	73.5	53.2
09:00 AM - 10:00 AM	59.9	84.7	50.9
10:00 AM - 11:00 AM	66.6	83.1	60.8

Leq Average 24 hrs. (dB(A)) 58.3
Lmax (dB(A)) 84.7
L90 (dB(A)) 45.2
Ldn (dB(A)) 62.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010633-1

Page 1 of 1

Sample Number 2444098-8
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 13 - May 14, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.7	83.7	45.8
01:00 PM - 02:00 PM	52.1	67.0	43.9
02:00 PM - 03:00 PM	52.2	79.6	47.9
03:00 PM - 04:00 PM	48.5	63.0	46.0
04:00 PM - 05:00 PM	49.6	83.2	43.8
05:00 PM - 06:00 PM	50.0	63.4	43.8
06:00 PM - 07:00 PM	50.8	64.8	44.8
07:00 PM - 08:00 PM	52.0	61.9	50.2
08:00 PM - 09:00 PM	55.4	63.6	53.5
09:00 PM - 10:00 PM	56.6	63.1	54.1
10:00 PM - 11:00 PM	56.8	64.6	53.0
11:00 PM - 12:00 AM	55.5	63.5	51.3
12:00 AM - 01:00 AM	55.9	63.4	52.1
01:00 AM - 02:00 AM	52.8	62.1	49.3
02:00 AM - 03:00 AM	49.7	59.5	48.0
03:00 AM - 04:00 AM	49.2	57.9	44.7
04:00 AM - 05:00 AM	51.6	58.4	44.3
05:00 AM - 06:00 AM	54.4	64.7	45.6
06:00 AM - 07:00 AM	50.6	72.5	46.6
07:00 AM - 08:00 AM	47.6	70.9	42.8
08:00 AM - 09:00 AM	47.9	76.4	40.2
09:00 AM - 10:00 AM	44.7	70.6	38.5
10:00 AM - 11:00 AM	43.7	63.0	38.5
11:00 AM - 12:00 PM	51.6	62.7	39.8

Leq Average 24 hrs. (dB(A)) 52.5
Lmax (dB(A)) 83.7
L90 (dB(A)) 45.6
Ldn (dB(A)) 59.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010634-1

Page 1 of 1

Sample Number 2444098-9
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 14 - May 15, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	50.6	64.6	49.6
01:00 PM - 02:00 PM	50.0	60.8	46.9
02:00 PM - 03:00 PM	48.8	60.5	46.9
03:00 PM - 04:00 PM	50.8	62.3	47.3
04:00 PM - 05:00 PM	54.0	66.9	47.3
05:00 PM - 06:00 PM	48.3	62.4	45.6
06:00 PM - 07:00 PM	53.1	73.7	46.4
07:00 PM - 08:00 PM	52.4	61.7	49.0
08:00 PM - 09:00 PM	49.6	62.1	47.0
09:00 PM - 10:00 PM	47.9	63.4	46.2
10:00 PM - 11:00 PM	47.9	58.1	46.8
11:00 PM - 12:00 AM	49.9	60.2	48.3
12:00 AM - 01:00 AM	50.1	59.9	48.9
01:00 AM - 02:00 AM	49.6	54.5	48.6
02:00 AM - 03:00 AM	49.8	54.1	48.8
03:00 AM - 04:00 AM	50.9	56.5	49.5
04:00 AM - 05:00 AM	51.7	57.7	50.3
05:00 AM - 06:00 AM	56.5	64.6	51.0
06:00 AM - 07:00 AM	51.1	64.4	48.6
07:00 AM - 08:00 AM	47.9	62.2	43.8
08:00 AM - 09:00 AM	46.7	64.8	42.3
09:00 AM - 10:00 AM	52.1	77.5	46.4
10:00 AM - 11:00 AM	51.7	63.6	47.1
11:00 AM - 12:00 PM	51.6	61.5	45.4

Leq Average 24 hrs. (dB(A)) 51.1
Lmax (dB(A)) 77.5
L90 (dB(A)) 47.1
Ldn (dB(A)) 57.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010635-1

Page 1 of 1

Sample Number 2444098-10
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 15 - May 16, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.4	91.6	47.4
01:00 PM - 02:00 PM	50.2	66.0	47.7
02:00 PM - 03:00 PM	49.4	68.1	47.5
03:00 PM - 04:00 PM	48.8	62.9	46.8
04:00 PM - 05:00 PM	49.8	73.5	44.3
05:00 PM - 06:00 PM	47.1	70.6	41.9
06:00 PM - 07:00 PM	55.0	63.8	46.1
07:00 PM - 08:00 PM	49.1	65.6	46.5
08:00 PM - 09:00 PM	46.8	60.2	44.8
09:00 PM - 10:00 PM	47.3	57.8	45.1
10:00 PM - 11:00 PM	47.7	75.9	44.6
11:00 PM - 12:00 AM	46.9	59.8	45.3
12:00 AM - 01:00 AM	46.4	61.2	45.0
01:00 AM - 02:00 AM	46.8	57.2	45.6
02:00 AM - 03:00 AM	44.9	58.9	43.6
03:00 AM - 04:00 AM	47.6	57.7	44.0
04:00 AM - 05:00 AM	49.3	59.4	48.1
05:00 AM - 06:00 AM	52.7	65.6	48.3
06:00 AM - 07:00 AM	49.9	73.9	46.2
07:00 AM - 08:00 AM	48.0	74.5	44.2
08:00 AM - 09:00 AM	46.9	69.7	41.6
09:00 AM - 10:00 AM	50.4	66.9	46.0
10:00 AM - 11:00 AM	48.4	69.8	45.7
11:00 AM - 12:00 PM	46.9	64.7	44.5

Leq Average 24 hrs. (dB(A)) 54.2
Lmax (dB(A)) 91.6
L90 (dB(A)) 45.3
Ldn (dB(A)) 57.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010636-1

Page 1 of 1

Sample Number 2444098-11
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 16 - May 17, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	59.8	67.1	49.1
01:00 PM - 02:00 PM	59.9	78.2	48.7
02:00 PM - 03:00 PM	49.6	67.3	46.4
03:00 PM - 04:00 PM	48.8	59.9	46.9
04:00 PM - 05:00 PM	49.2	61.8	46.8
05:00 PM - 06:00 PM	47.3	64.5	44.8
06:00 PM - 07:00 PM	52.4	67.6	48.0
07:00 PM - 08:00 PM	51.8	63.9	48.8
08:00 PM - 09:00 PM	52.3	57.9	50.0
09:00 PM - 10:00 PM	50.8	57.6	48.0
10:00 PM - 11:00 PM	51.0	62.8	48.6
11:00 PM - 12:00 AM	52.6	61.4	48.8
12:00 AM - 01:00 AM	60.0	72.7	50.5
01:00 AM - 02:00 AM	59.5	70.5	56.9
02:00 AM - 03:00 AM	57.1	65.0	51.9
03:00 AM - 04:00 AM	51.7	76.0	49.4
04:00 AM - 05:00 AM	52.4	57.4	50.1
05:00 AM - 06:00 AM	54.1	66.9	47.9
06:00 AM - 07:00 AM	50.4	71.1	47.5
07:00 AM - 08:00 AM	49.9	69.9	46.0
08:00 AM - 09:00 AM	49.2	73.4	44.4
09:00 AM - 10:00 AM	46.1	73.4	41.8
10:00 AM - 11:00 AM	48.3	62.8	43.1
11:00 AM - 12:00 PM	49.1	65.8	45.3

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 78.2
L90 (dB(A)) 48.0
Ldn (dB(A)) 61.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

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Approved by

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Supot Salamteh
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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010637-1

Page 1 of 1

Sample Number 2444098-12
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 17 - May 18, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	48.1	60.0	46.3
01:00 PM - 02:00 PM	47.5	60.9	45.7
02:00 PM - 03:00 PM	48.6	64.3	46.3
03:00 PM - 04:00 PM	49.6	61.8	46.9
04:00 PM - 05:00 PM	50.3	62.3	43.0
05:00 PM - 06:00 PM	49.1	65.8	46.3
06:00 PM - 07:00 PM	54.7	69.6	46.5
07:00 PM - 08:00 PM	49.8	59.9	48.2
08:00 PM - 09:00 PM	48.7	65.4	47.1
09:00 PM - 10:00 PM	49.2	68.1	47.1
10:00 PM - 11:00 PM	48.0	61.5	46.4
11:00 PM - 12:00 AM	49.4	61.6	46.7
12:00 AM - 01:00 AM	52.1	61.0	46.9
01:00 AM - 02:00 AM	51.8	62.0	45.2
02:00 AM - 03:00 AM	47.7	60.1	45.2
03:00 AM - 04:00 AM	44.7	57.6	41.5
04:00 AM - 05:00 AM	44.9	58.2	42.1
05:00 AM - 06:00 AM	54.8	66.7	45.3
06:00 AM - 07:00 AM	53.5	80.7	46.2
07:00 AM - 08:00 AM	49.4	72.0	45.3
08:00 AM - 09:00 AM	51.1	77.8	44.0
09:00 AM - 10:00 AM	51.5	82.5	44.6
10:00 AM - 11:00 AM	48.4	65.6	46.1
11:00 AM - 12:00 PM	49.9	67.7	47.3

Leq Average 24 hrs. (dB(A)) 50.4
Lmax (dB(A)) 82.5
L90 (dB(A)) 46.2
Ldn (dB(A)) 57.2
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010638-1

Page 1 of 1

Sample Number 2444098-13
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 18 - May 19, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	47.8	66.4	45.7
01:00 PM - 02:00 PM	53.7	66.5	46.7
02:00 PM - 03:00 PM	51.9	79.6	46.8
03:00 PM - 04:00 PM	49.1	65.5	46.8
04:00 PM - 05:00 PM	48.9	75.1	46.1
05:00 PM - 06:00 PM	47.6	70.4	44.3
06:00 PM - 07:00 PM	52.7	64.7	45.4
07:00 PM - 08:00 PM	50.5	62.9	47.3
08:00 PM - 09:00 PM	48.1	63.9	46.2
09:00 PM - 10:00 PM	48.0	55.3	46.5
10:00 PM - 11:00 PM	48.6	61.9	46.8
11:00 PM - 12:00 AM	49.1	61.5	46.6
12:00 AM - 01:00 AM	48.9	55.3	47.2
01:00 AM - 02:00 AM	48.5	57.5	47.0
02:00 AM - 03:00 AM	49.0	62.8	47.3
03:00 AM - 04:00 AM	49.1	70.7	47.3
04:00 AM - 05:00 AM	49.0	58.1	47.0
05:00 AM - 06:00 AM	53.5	66.5	48.2
06:00 AM - 07:00 AM	52.2	76.9	47.4
07:00 AM - 08:00 AM	51.6	70.2	47.9
08:00 AM - 09:00 AM	49.5	73.6	46.4
09:00 AM - 10:00 AM	49.7	64.2	47.4
10:00 AM - 11:00 AM	49.9	72.9	47.3
11:00 AM - 12:00 PM	48.5	59.8	46.9

Leq Average 24 hrs. (dB(A)) 50.2
Lmax (dB(A)) 79.6
L90 (dB(A)) 46.8
Ldn (dB(A)) 56.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
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Approved by

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Analysis / Test Report

TESTING
No.0042

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 3

Lot ID: 2444098

Date Received : May 29, 2024
Date Reported : Jun 01, 2024
Report Number: 3010639-1

Page 1 of 1

Sample Number 2444098-14
Parameter Noise (Leq 24 hrs.)
Location บ้านเมืองใหม่มาบตาพุด (GPS 47P 0734651, 1406341)
Measurement Date May 19 - May 20, 2024
Measurement by Anuwet Tema
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	49.0	69.7	47.1
01:00 PM - 02:00 PM	48.6	62.5	47.0
02:00 PM - 03:00 PM	48.2	58.0	46.3
03:00 PM - 04:00 PM	49.3	67.7	47.2
04:00 PM - 05:00 PM	50.2	75.8	48.0
05:00 PM - 06:00 PM	48.9	62.0	46.9
06:00 PM - 07:00 PM	52.7	62.1	47.1
07:00 PM - 08:00 PM	50.0	62.0	48.3
08:00 PM - 09:00 PM	50.0	62.2	48.4
09:00 PM - 10:00 PM	49.9	62.4	48.1
10:00 PM - 11:00 PM	49.2	63.4	47.3
11:00 PM - 12:00 AM	48.7	59.3	47.2
12:00 AM - 01:00 AM	48.6	54.7	47.3
01:00 AM - 02:00 AM	48.4	56.4	46.1
02:00 AM - 03:00 AM	44.8	57.5	42.3
03:00 AM - 04:00 AM	49.7	61.7	48.0
04:00 AM - 05:00 AM	49.5	62.0	47.7
05:00 AM - 06:00 AM	48.8	59.4	47.3
06:00 AM - 07:00 AM	48.9	58.7	47.0
07:00 AM - 08:00 AM	50.9	76.5	48.7
08:00 AM - 09:00 AM	50.1	62.5	46.9
09:00 AM - 10:00 AM	51.7	70.3	48.0
10:00 AM - 11:00 AM	54.0	63.4	48.4
11:00 AM - 12:00 PM	51.8	70.4	48.1

Leq Average 24 hrs. (dB(A)) 50.0
Lmax (dB(A)) 76.5
L90 (dB(A)) 47.3
Ldn (dB(A)) 55.4
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ระดับเสียงที่ลูกจ้างได้รับเฉลี่ยตลอดเวลาการทำงานในแต่ละวัน
(Time Weighted Average-TWA)



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Lot ID: 2444123

Date Received : May 21, 2024

Date Reported : May 27, 2024

Report Number : 2969885-1

Page 1 of 1

Sample Number 2444123-2
Sampled Date May 20, 2024
Sample Description Noise Dose (12 hrs.)
Location HDPE 2 Section 3200
Personal Sampling คุณยศกร สูงเจริญ
Date Analysis Commenced May 27, 2024

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	1	8.7	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	8.1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	72.4	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	74.1	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

Guideline :

- MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Amnat Wongsakhen

Remark :

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

Approved by

Supot Salamteh
Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : HDPE2

Lot ID: 2470248

Date Received : Jun 25, 2024

Date Reported : Jul 03, 2024

Report Number : 3030514-1

Page 1 of 1

Sample Number 2470248-1
Sampled Date Jun 24, 2024
Sample Description Noise Dose
Location HDPE 2 Section 3400
Personal Sampling คุณคุณากร ปิ่นแก้ว
Date Analysis Commenced Jun 27, 2024

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	1	18.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	18.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	75.7	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	77.7	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

Guideline :

MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Norranon Tathongkham

Remark :

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

Approved by

Supot Salamteh
Section Head

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ระดับเสียงเฉลี่ยตลอดเวลาการทำงาน



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444113

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005341-1

Page 1 of 1

Sample Number 2444113-1
Parameter Noise (Leq 12 hrs.)
Location บริเวณ Hexane Recovery Unit
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:01 AM - 10:01 AM	68.7	71.7	68.3
10:01 AM - 11:01 AM	68.5	71.6	68.0
11:01 AM - 12:01 PM	68.8	71.5	68.5
12:01 PM - 01:01 PM	68.6	71.2	68.0
01:01 PM - 02:01 PM	69.2	71.8	68.8
02:01 PM - 03:01 PM	69.4	76.3	68.9
03:01 PM - 04:01 PM	69.1	75.4	68.6
04:01 PM - 05:01 PM	68.6	70.9	68.1
05:01 PM - 06:01 PM	68.7	71.8	68.2
06:01 PM - 07:01 PM	68.8	71.1	68.3
07:01 PM - 08:01 PM	68.5	71.2	68.2
08:01 PM - 09:01 PM	68.7	71.8	68.2
Leq Average 12 hrs. (dB(A))	68.8		
Lmax (dB(A))		76.3	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

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Section Head

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444113

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005342-1

Page 1 of 1

Sample Number 2444113-2
Parameter Noise (Leq 12 hrs.)
Location บริเวณ Pelletizer
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:05 AM - 10:05 AM	66.0	79.1	64.4
10:05 AM - 11:05 AM	64.5	71.0	63.9
11:05 AM - 12:05 PM	64.4	66.0	64.0
12:05 PM - 01:05 PM	64.5	69.3	64.1
01:05 PM - 02:05 PM	64.1	74.3	63.6
02:05 PM - 03:05 PM	63.7	65.6	63.3
03:05 PM - 04:05 PM	62.5	78.2	59.9
04:05 PM - 05:05 PM	60.4	62.0	59.9
05:05 PM - 06:05 PM	60.9	63.8	60.4
06:05 PM - 07:05 PM	60.5	63.4	60.0
07:05 PM - 08:05 PM	60.3	61.9	59.8
08:05 PM - 09:05 PM	60.8	63.7	60.3

Leq Average 12 hrs. (dB(A)) 63.2
Lmax (dB(A)) 79.1
Standard (dB(A)) 87
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444113

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005343-1

Page 1 of 1

Sample Number 2444113-3
Parameter Noise (Leq 12 hrs.)
Location บริเวณ Compressor
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:33 AM - 10:33 AM	63.6	74.5	62.6
10:33 AM - 11:33 AM	63.2	69.2	61.9
11:33 AM - 12:33 PM	62.4	66.6	61.4
12:33 PM - 01:33 PM	60.6	63.9	59.8
01:33 PM - 02:33 PM	59.6	74.5	59.1
02:33 PM - 03:33 PM	58.8	62.9	58.2
03:33 PM - 04:33 PM	59.3	63.7	58.6
04:33 PM - 05:33 PM	59.2	61.7	58.7
05:33 PM - 06:33 PM	59.5	63.9	58.8
06:33 PM - 07:33 PM	59.6	64.0	58.9
07:33 PM - 08:33 PM	59.8	63.1	59.0
08:33 PM - 09:33 PM	59.0	63.1	58.4
Leq Average 12 hrs. (dB(A))	60.7		
Lmax (dB(A))		74.5	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444113

Date Received : May 21, 2024
Date Reported : May 27, 2024
Report Number: 3005344-1

Page 1 of 1

Sample Number 2444113-4
Parameter Noise (Leq 12 hrs.)
Location บริเวณ Reactor
Measurement Date May 20, 2024
Measurement by Prasanmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:35 AM - 10:35 AM	71.6	77.7	69.3
10:35 AM - 11:35 AM	71.3	77.4	68.9
11:35 AM - 12:35 PM	71.6	78.2	69.3
12:35 PM - 01:35 PM	72.1	78.5	69.6
01:35 PM - 02:35 PM	72.0	78.1	69.4
02:35 PM - 03:35 PM	71.6	78.6	68.9
03:35 PM - 04:35 PM	71.5	78.1	68.9
04:35 PM - 05:35 PM	71.5	78.1	68.9
05:35 PM - 06:35 PM	71.5	77.8	68.8
06:35 PM - 07:35 PM	71.3	77.9	68.7
07:35 PM - 08:35 PM	71.5	78.5	68.8
08:35 PM - 09:35 PM	71.2	78.2	68.5
Leq Average 12 hrs. (dB(A))	71.6		
Lmax (dB(A))		78.6	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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แผนผังแสดงระดับเสียง (Noise Contour Map)



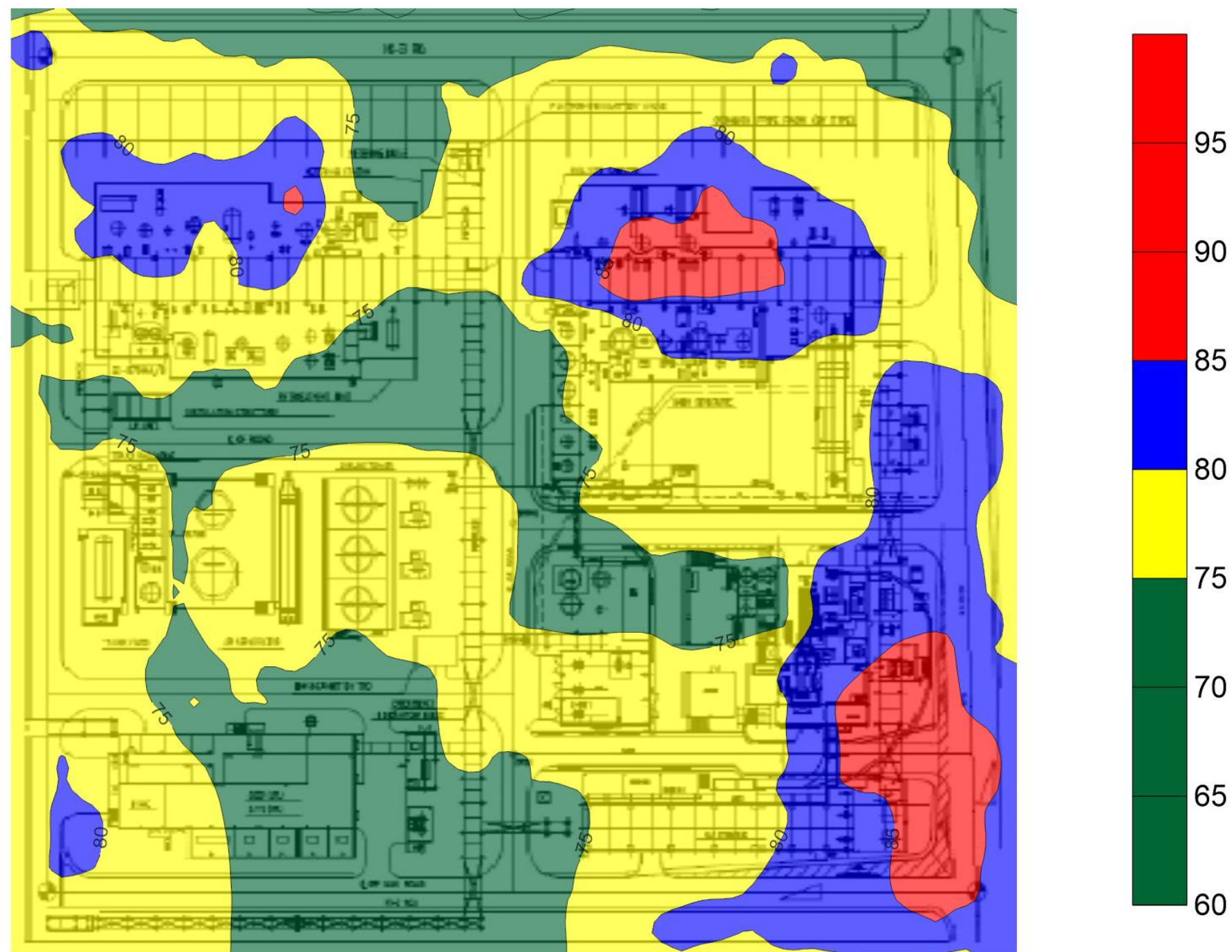
Noise Contour Map

Reference Number : Lot 2143720-1

Measurement Date : April 22, 2021

Thai Polyethylene Co., Ltd.

โครงการโรงงานผลิตเม็ดพลาสติกโพลีเอททีลีน ชนิดความหนาแน่นสูง โรงงานที่ 2 (HDPE 2)



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

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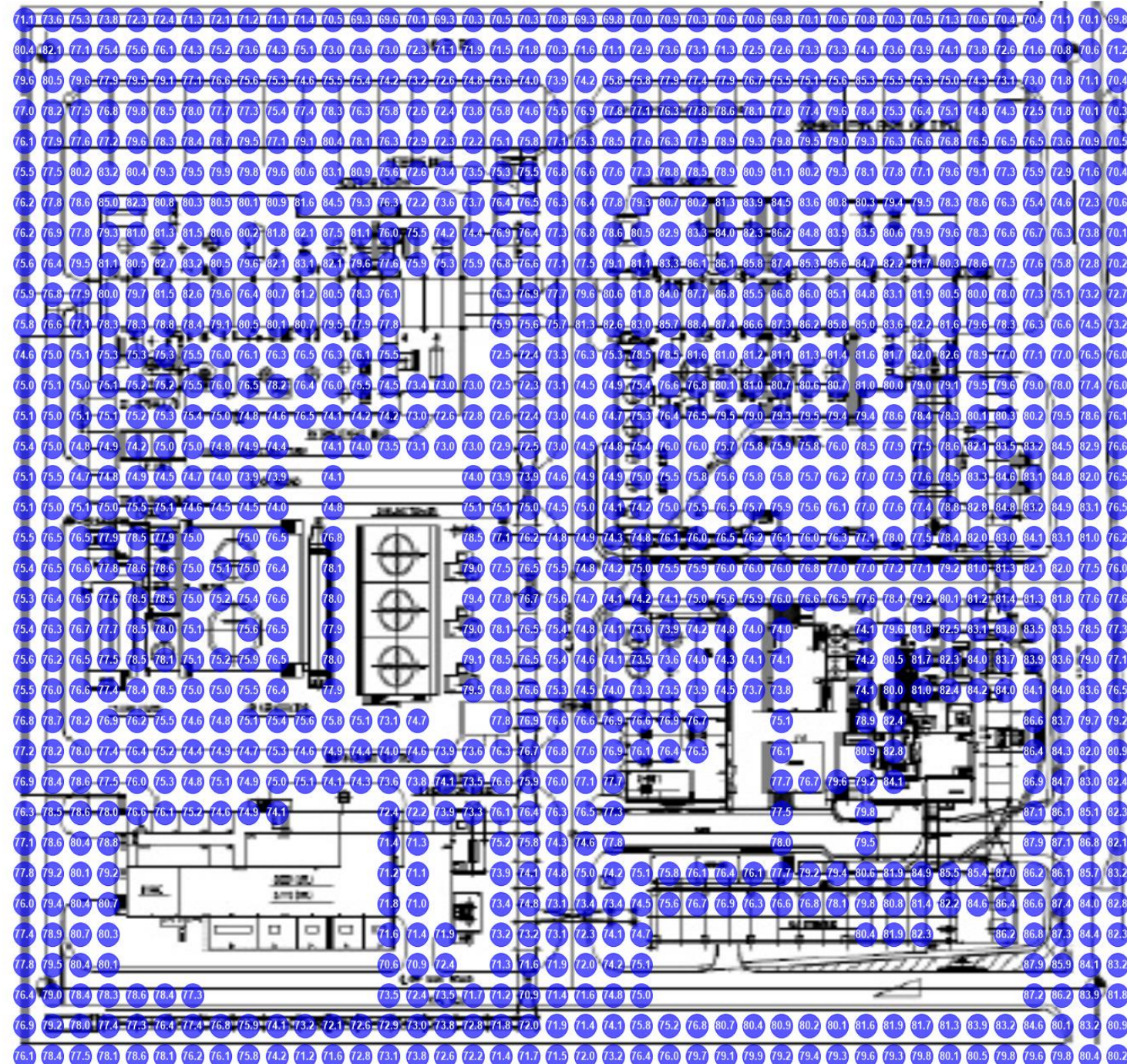
Noise Contour Map

Reference Number : Lot 2143720-1

Measurement Date : April 22, 2021

Thai Polyethylene Co., Ltd.

โครงการโรงงานผลิตเม็ดพลาสติกโพลีเอททีลีน ชนิดความหนาแน่นสูง โรงงานที่ 2 (HDPE 2)



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คุณภาพอากาศภายในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Lot ID: 247082

Date Received : Mar 21, 2024

Date Reported : Mar 30, 2024

Report Number : 2889779-1

Page 1 of 3

Sample Number 247082-1
Sampled Date Mar 21, 2024
Sample Description Air Quality
Location บริเวณ Hexane Recovery Unit
Date Analysis Commenced Mar 22, 2024
Condition of Sample Contained in 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 (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
n-Hexane	02:00 PM - 04:00 PM	ppm	-	0.03	0.06	500	NIOSH (2003), 1500	MOL	Bangkok

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)

Sampled By : Mongkon Phalathip

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 247082

Date Received : Mar 21, 2024
Date Reported : Mar 30, 2024
Report Number : 2889779-1

Page 2 of 3

Sample Number 247082-2
Sampled Date Mar 21, 2024
Sample Description Air Quality
Location บริเวณ Preheater
Date Analysis Commenced Mar 22, 2024
Condition of Sample Contained in 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 (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1-Butene	02:00 PM - 04:00 PM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
1-Hexene	02:00 PM - 04:00 PM	ppm	-	1.0	<1.0	50		ACGIH	Bangkok
Ethylene	02:00 PM - 04:00 PM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-18	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

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)

Sampled By : Mongkon Phalathip

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444106

Date Received : May 21, 2024

Date Reported : Jun 01, 2024

Report Number : 2969826-1

Page 1 of 3

Sample Number : 2444106-1
Sampled Date : May 20, 2024
Sample Description : Air Quality
Location : บริเวณ Hexane Recovery Unit
Date Analysis Commenced : May 23, 2024
Condition of Sample : Drawn into one sorbent tube, refrigerated
Barometric Pressure : 752 mmHg
Atmospheric Temperature : 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
n-Hexane	09:45 AM - 11:45 AM	ppm	-	0.03	0.58	500	NIOSH (2003), 1500	MOL	Bangkok

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)

Sampled By : Prasanmit Kueanpet

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand 21150

P/O : PMM-23-11

Project Name : Environmental Monitoring

Project Location : HDPE2

Lot ID: 2444106

Date Received : May 21, 2024

Date Reported : Jun 01, 2024

Report Number : 2969826-1

Page 2 of 3

Sample Number 2444106-2
Sampled Date May 20, 2024
Sample Description Air Quality
Location บริเวณ Preheater
Date Analysis Commenced May 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 752 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1-Butene	09.45 AM - 11.45 AM	ppm	-	1.0	<1.0	250	Based on ASTM, D2712-18	MOL	Bangkok
1-Hexene	09.45 AM - 11.45 AM	ppm	-	1.0	<1.0	50		ACGIH	Bangkok
Ethylene	09.45 AM - 11.45 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-18	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

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)

Sampled By : Prasanmit Kueanpet

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ระดับความร้อนในบริเวณการทำงาน



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand
21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444120

Date Received : May 21, 2024

Date Reported : May 24, 2024

Report Number: 2969883-1

Page 1 of 3

Sample Number 2444120-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 20, 2024
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Dryer	120	27.4	26.7	29.1	29.1
Average (WBGT)		27.4			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
271, Sukhumvit Road, Tambol Map Ta Phut, Amphur Muang, Rayong Thailand
21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444120

Date Received : May 21, 2024

Date Reported : May 24, 2024

Report Number: 2969883-1

Page 2 of 3

Sample Number 2444120-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 20, 2024
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Vaporizier	120	27.7	26.9	29.5	29.5
Average (WBGT)		27.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : HDPE2

Lot ID: 2444120

Date Received : May 21, 2024

Date Reported : May 24, 2024

Report Number: 2969883-1

Page 3 of 3

Sample Number 2444120-3
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 20, 2024
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Pre-heater	120	27.7	26.8	29.7	29.3
Average (WBGT)		27.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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