

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

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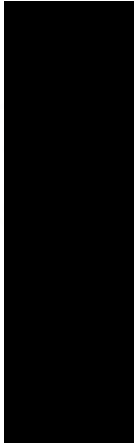
Sample Number	24117355-1				
Sampled Date	Nov 13, 2024				
Sample Description	Air Quality				
Location	อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.4 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	13/11/24 - 14/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	13/11/24 - 14/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :

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

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Project Name : Environmental Monitoring
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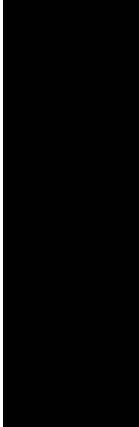
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Sampled Date	Nov 14, 2024				
Sample Description	Air Quality				
Location	อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	29.9 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	14/11/24 - 15/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	14/11/24 - 15/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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Lot ID: 24117355
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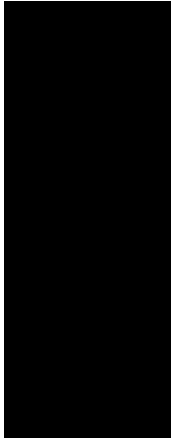
Sample Number	24117355-3				
Sampled Date	Nov 15, 2024				
Sample Description	Air Quality				
Location	อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.1 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	15/11/24 - 16/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	15/11/24 - 16/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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Project Location :
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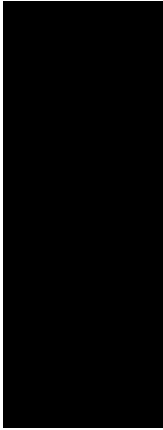
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Sampled Date	Nov 16, 2024				
Sample Description	Air Quality				
Location	อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	31.1 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	16/11/24 - 17/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	16/11/24 - 17/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
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Sample Number 24117355-5
Sampled Date Nov 17, 2024
Sample Description Air Quality
Location อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)
Date Analysis Commenced Nov 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
n-Hexane	17/11/24 - 18/11/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok
Propylene	17/11/24 - 18/11/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

Sampled By : Anuwet Tema

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Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
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Sample Number 24117355-6
Sampled Date Nov 18, 2024
Sample Description Air Quality
Location อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)
Date Analysis Commenced Nov 23, 2024
Condition of Sample Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
n-Hexane	18/11/24 - 19/11/24	ppm	-	0.10	<0.10	NIOSH (2003), 1500	Bangkok
Propylene	18/11/24 - 19/11/24	ppm	-	1.0	<1.0	Based on ASTM, D2712-18	Bangkok

Sampled By : Anuwet Tema

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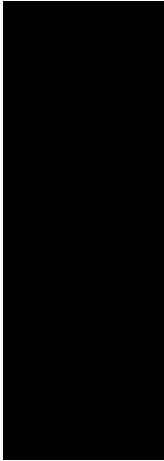
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Sample Number	24117355-7				
Sampled Date	Nov 19, 2024				
Sample Description	Air Quality				
Location	อาคารสำนักงานของโรงงาน TPE (Site # 1) (GPS 47P 0731745, 1404883)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.1 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	19/11/24 - 20/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	19/11/24 - 20/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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Project Location :
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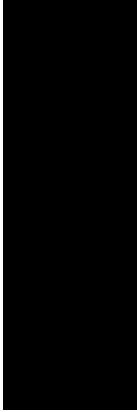
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Sample Number	24117355-8				
Sampled Date	Nov 13, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุด (ใกล้ถนนสุขุมวิท) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.4 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	13/11/24 - 14/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	13/11/24 - 14/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

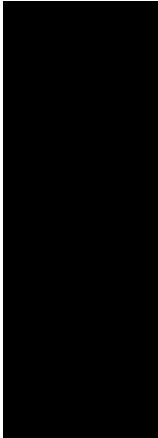
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Sample Number	24117355-9				
Sampled Date	Nov 14, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุทธ (โรงเรียนสุราษฎร์ธานี) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	29.9 °C				
Analyte	Sampled Date/Time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	14/11/24 - 15/11/24	ppm	- 0.10	<0.10	NIOSH (2003), 1500
Propylene	14/11/24 - 15/11/24	ppm	- 1.0	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
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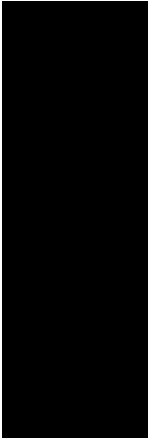
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Sample Number	24117355-10				
Sampled Date	Nov 15, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุทธ (โรงเรียนสุราษฎร์ธานี) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.1 °C				
Analyte	Sampled Date/Time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	15/11/24 - 16/11/24	ppm	- 0.10	<0.10	NIOSH (2003), 1500
Propylene	15/11/24 - 16/11/24	ppm	- 1.0	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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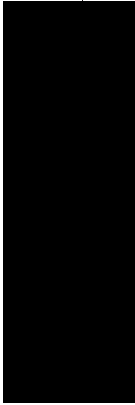
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Sampled Date	Nov 16, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุด (โรงเรียนพุด) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	31.1 °C				
Analyte	Sampled Date/Time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	16/11/24 - 17/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	16/11/24 - 17/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

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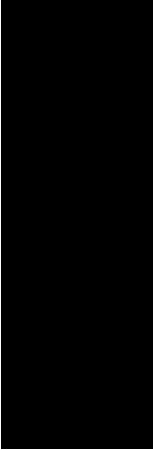
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Sampled Date	Nov 17, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุด (โรงเรียนพุด) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.2 °C				
Analyte	Sampled Date/Time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	17/11/24 - 18/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	17/11/24 - 18/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

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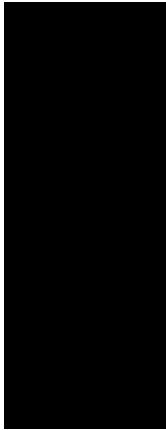
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Sample Number	24117355-13				
Sampled Date	Nov 18, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุทธ (โรงเรียนสุราษฎร์ธานี) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.4 °C				
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Method
Air Testing					
n-Hexane	18/11/24 - 19/11/24	ppm	-	0.10	NIOSH (2003), 1500
Propylene	18/11/24 - 19/11/24	ppm	-	1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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Date Reported : Nov 29, 2024
Report Number : 3135827-1

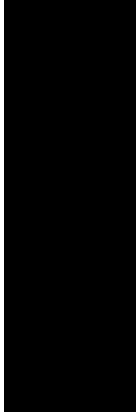
Page 14 of 21

Sample Number	24117355-14				
Sampled Date	Nov 19, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติพุทธ (โรงเรียนสุราษฎร์ธานี) (GPS 47P 0735343, 1406686)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.1 °C				
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Method
Air Testing					
n-Hexane	19/11/24 - 20/11/24	ppm	-	0.10	NIOSH (2003), 1500
Propylene	19/11/24 - 20/11/24	ppm	-	1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :

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



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

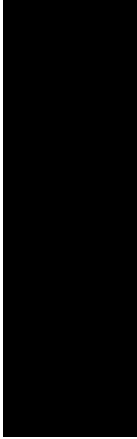
Page 15 of 21

Sample Number	24117355-15				
Sampled Date	Nov 13, 2024				
Sample Description	Air Quality				
Location	โรงเรียนพณิชยการเมืองไทย (GPS 47P 0729825, 1403308)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.4 °C				
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Method
Air Testing					
n-Hexane	13/11/24 - 14/11/24	ppm	-	0.10	NIOSH (2003), 1500
Propylene	13/11/24 - 14/11/24	ppm	-	1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

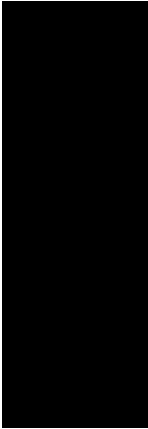
Page 16 of 21

Sample Number	24117355-16				
Sampled Date	Nov 14, 2024				
Sample Description	Air Quality				
Location	โรงเรียนพณิชยการเมืองไทย (GPS 47P 0729825, 1403308)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	29.9 °C				
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Method
Air Testing					
n-Hexane	14/11/24 - 15/11/24	ppm	-	0.10	NIOSH (2003), 1500
Propylene	14/11/24 - 15/11/24	ppm	-	1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

Page 17 of 21

Sample Number	24117355-17				
Sampled Date	Nov 15, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติบางปะอิน (GPS 47P 0729825, 1403308)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.1 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	15/11/24 - 16/11/24	ppm	- 0.10	<0.10	NIOSH (2003), 1500
Propylene	15/11/24 - 16/11/24	ppm	- 1.0	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

Page 18 of 21

Sample Number	24117355-18				
Sampled Date	Nov 16, 2024				
Sample Description	Air Quality				
Location	โรงเรียนนานาชาติบางปะอิน (GPS 47P 0729825, 1403308)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	31.1 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	16/11/24 - 17/11/24	ppm	- 0.10	<0.10	NIOSH (2003), 1500
Propylene	16/11/24 - 17/11/24	ppm	- 1.0	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :
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Analysis / Test Report

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Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

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Sample Number	24117355-19				
Sampled Date	Nov 17, 2024				
Sample Description	Air Quality				
Location	โรงเรียนพณิชยการเมืองไทย (GPS 47P 0729825, 1403308)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.2 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	17/11/24 - 18/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	17/11/24 - 18/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

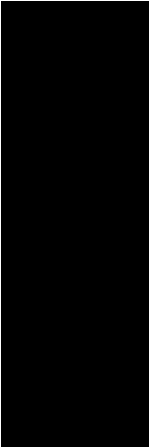
Page 20 of 21

Sample Number	24117355-20				
Sampled Date	Nov 18, 2024				
Sample Description	Air Quality				
Location	โรงเรียนพณิชยการเมืองไทย (GPS 47P 0729825, 1403308)				
Date Analysis Commenced	Nov 23, 2024				
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated				
Barometric Pressure	756 mmHg				
Atmospheric Temperature	30.4 °C				
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Method
Air Testing					
n-Hexane	18/11/24 - 19/11/24	ppm	-	<0.10	NIOSH (2003), 1500
Propylene	18/11/24 - 19/11/24	ppm	-	<1.0	Based on ASTM, D2712-18

Sampled By : Anuwet Tema

Remark :

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P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117355
Date Received : Nov 22, 2024
Date Reported : Nov 29, 2024
Report Number : 3135827-1

Analysis / Test Report

Page 21 of 21

Sample Number	24117355-21		
Sampled Date	Nov 19, 2024		
Sample Description	Air Quality		
Location	ตำบลบ้านดอนเตาปูน (GPS 47P 0729825, 1403308)		
Date Analysis Commenced	Nov 23, 2024		
Condition of Sample	Drawn into one 10-L air sampling bag and two sorbent tubes, refrigerated		
Barometric Pressure	756 mmHg		
Atmospheric Temperature	30.1 °C		
Analyte	Sampled Date/time	Unit	Result
Air Testing			LOQ (LOR)
n-Hexane	19/11/24 - 20/11/24	ppm	<0.10
Propylene	19/11/24 - 20/11/24	ppm	<1.0

Sampled By : Anuwet Tema

Remark :

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Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand
21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :
Lot ID: 24117312
Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number : 3135735-1

Analysis / Test Report

Page 1 of 2

Sample Number 24117312-1 to 7
Parameter Wind Speed / Wind Direction
Location อำเภอคำชะอีตำบลหนองกุ่มโรงงาน TPE (Site 1) (GPS 47P 0731747, 1404885)
Sampling Date Nov 13 - Nov 20, 2024
Sampling by Anuwet Tema

Time	Nov 13 - Nov 14, 2024		Nov 14 - Nov 15, 2024		Nov 15 - Nov 16, 2024		Nov 16 - Nov 17, 2024		Nov 17 - Nov 18, 2024		Nov 18 - Nov 19, 2024		Nov 19 - Nov 20, 2024	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
01:00 PM - 02:00 PM	1.3	298.0	NNW	0.4	252.0	WSW	0.9	275.0	W	1.3	258.0	WSW	0.6	272.0
02:00 PM - 03:00 PM	0.9	236.0	SW	0.6	188.0	S	0.5	258.0	WSW	0.9	217.0	SW	0.3	291.0
03:00 PM - 04:00 PM	1.1	294.0	NNW	1.0	252.0	WSW	0.1	-	-	0.8	270.0	W	3.3	142.0
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	356.0
05:00 PM - 06:00 PM	1.0	359.0	N	0.8	48.0	NE	0.0	-	-	0.1	-	-	0.4	3.0
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.9	23.0
07:00 PM - 08:00 PM	0.0	-	0.3	50.0	NE	0.3	359.0	N	0.0	-	0.5	0.0	N	1.0
08:00 PM - 09:00 PM	0.0	-	0.0	-	0.4	0.0	N	0.0	-	1.2	0.0	N	2.6	49.0
09:00 PM - 10:00 PM	0.0	-	1.5	27.0	NNE	0.0	-	-	0.0	-	2.0	348.0	NNW	0.7
10:00 PM - 11:00 PM	0.5	344.0	NNW	0.0	-	-	0.0	-	-	0.9	25.0	NNE	0.2	-
11:00 PM - 12:00 AM	0.0	-	0.1	-	0.0	-	0.4	359.0	N	0.0	-	-	0.6	0.0
12:00 AM - 01:00 AM	0.0	-	0.0	-	0.3	19.0	NNE	0.0	-	1.0	16.0	NNE	1.8	352.0
01:00 AM - 02:00 AM	0.0	-	0.0	-	1.3	358.0	N	0.0	-	1.6	16.0	NNE	1.0	2.0
02:00 AM - 03:00 AM	0.3	357.0	N	0.0	-	1.1	351.0	N	0.0	-	0.9	359.0	N	0.8
03:00 AM - 04:00 AM	0.4	359.0	N	0.5	350.0	N	1.0	350.0	N	1.4	16.0	NNE	1.2	6.0
04:00 AM - 05:00 AM	0.7	342.0	NNW	0.8	198.0	SSW	0.0	-	-	0.6	0.0	N	0.7	9.0
05:00 AM - 06:00 AM	1.3	359.0	N	0.6	316.0	NW	0.3	0.0	N	0.0	-	2.3	346.0	NNW
06:00 AM - 07:00 AM	1.1	24.0	NNE	0.7	114.0	ESE	1.2	52.0	NE	0.0	-	1.2	354.0	N
07:00 AM - 08:00 AM	1.9	359.0	N	1.1	189.0	S	0.7	20.0	NNE	1.6	353.0	N	1.8	37.0
08:00 AM - 09:00 AM	1.4	0.0	N	0.7	307.0	NW	0.0	-	-	0.0	-	-	1.1	349.0
09:00 AM - 10:00 AM	1.4	52.0	NE	0.0	-	-	0.1	-	-	0.5	249.0	WSW	1.8	22.0
10:00 AM - 11:00 AM	0.9	156.0	SSE	0.5	201.0	SSW	0.7	188.0	S	0.6	165.0	SSE	2.6	342.0
11:00 AM - 12:00 PM	2.0	200.0	SSW	1.2	472.0	S	1.1	204.0	SSW	1.2	181.0	S	0.0	-
12:00 PM - 01:00 PM	0.9	242.0	WSW	2.0	198.0	SSW	0.8	242.0	WSW	1.2	252.0	WSW	1.2	201.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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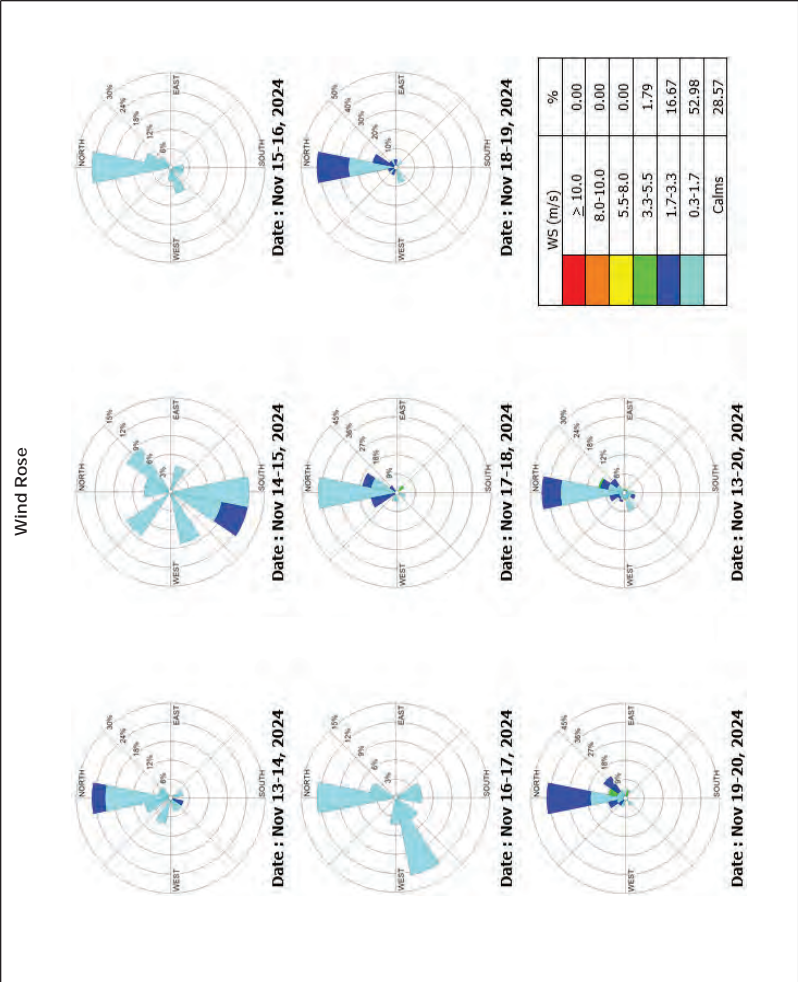
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand
21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location :

Lot ID: 24117312
Date Received :Nov 21, 2024
Date Reported :Nov 26, 2024
Report Number :3135735-1



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ภาคผนวก ค-2

คุณภาพน้ำทิ้ง



Analysis / Test Report

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10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

TESTING
No.0042
Lot ID: 2469118
Date Received : Jul 05, 2024
Date Reported : Jul 13, 2024
Report Number : 3027937-1

Page 1 of 2

Sample Number	2469118-1								
Sample Date	Jul 05, 2024	11:15 AM							
Sample Description	Wastewater								
Location	PPI : น้ำทิ้ง API Separator								
Date Analysis Commenced	Jul 05, 2024								
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)								
Analyte	Unit	LOD	Result	LOQ (LOR)	Guideline / Specification	Method	Testing Location		
Water Testing									
BOD (5 days at 20 Degree C)	mg/L	-	3.7	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	34	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	-	10	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	-	9	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	-	32.2	-	≤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	-	404	5	≤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		

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

TESTING
No.0042
Lot ID: 2469118
Date Received : Jul 05, 2024
Date Reported : Jul 13, 2024
Report Number : 3027937-1

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 : Phongthep Sithiloh รหัสพนักงาน 3-323-3-0023 , Thanasoun Namakuma รหัสพนักงาน 3-204-3-0101
Remark :
- LOD : Limit of Detection
- "L" : 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.

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Client : Thai Polyethylene Co., Ltd.
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Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Lot ID: 2469118
Date Received : Jul 05, 2024
Date Reported : Aug 07, 2024
Report Number : 3027937-2

Page 1 of 1.

Analysis / Test Report

Sample Number	2469118-1
Sampled Date	Jul 05, 2024 11:15 AM
Sample Description	Wastewater
Location	PP1 : น้ำทิ้ง API Separator
Date Analysis Commenced	Jul 05, 2024
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	101	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.007	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	0.01	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

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

Sampling v.v : Phongthep Sithiloh , Thanasoun Namakunna

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

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. The laboratory does not warrant the accuracy of the results and this report is not reproduced except in full.

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Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Lot ID: 2479564
Date Received : Aug 02, 2021
Date Reported : Aug 04, 2021
Report 9umNer : 3052117-1

Page 1 of 2.

Analysis / Test Report

Sample Number	21F457J-1
Sampled Date	Aug 02, 2021 10:02 AM
Sample Description	6 aste8 ater
Location	PP1 : น้ำทิ้ง API Separator
Date Analysis Commenced	Aug 02, 2021
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards WPWA, (SEPAH

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
U) D V8 days at 20 Degree CH	mg/L	-	2.0	F 2.0	≤20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 U, part J500 -) &	Rayong
C) D	mg/L	1.5	25	F 25	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color Nkt) riginal pwH	ADMI	-	5	10	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 x	Rayong
Color Nkt pw f .0H	ADMI	-	5	4	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 x	Rayong
) I) O & rease	mg/L	-	3	F 3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 U	Rayong
pw at 25 degree C	-	-	-	f .G	5.5-4.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part J500 - w NH	Rayong
Temperature <	Degree C	-	-	32.J	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 U	Rayong
Total Dissolved Solids Dried at 100 degree C	mg/L	-	5	J 20	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	F 5	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510 D	Rayong

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

TESTING
No.0042
Lot ID: 2479564
Date Received : Aug 02, 2023
Date Reported : Aug 04, 2023
Report 9 umi/er : 3052117-1

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, U.E.2570 W01fH
Sampling By : Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :
- L/D : Limit of Detection
- "F" : Lo8 or than L/Q Limit of Reporting
- Analyte W/mar ad < is/are not included in scope of accreditation IS/ IEC 1f 025.
- The laboratory has been accepted as an accredited laboratory complying 8 lth the IS/ IEC 1f 025.



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Lot ID: 2479564
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3052416-2

Page 1 of 1

Sample Number : 2479564-1
Sampled Date : Aug 02, 2024 10:02 AM
Sample Description : Wastewater
Location : PP1 : น้ำจาก API Separator
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LO8)	Result	Guideline / Specification	Method	Testing Location
Water Testing Chloride as Cl	mg/L	0.5	1	113	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.007	No Standard	Flow meter, Analyzed by Client	Rayong
n-Hexane	mg/L	-	0.001	<0.001	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

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

Sampling by : Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :
- LOD : Limit of Detection
- "L" : Lower than LOQ (Limit of Quantitation) / LO8 (Limit of Reporting)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

TESTING
No.0042
Lot ID: 24112643
Date Received : Sep 27, 2024
Date Reported : Oct 04, 2024
Report Number : 3123948-1

Page 1 of 2

Sample Number		24112643-1					
Sample Date		Sep 27, 2024 3:20 PM					
Sample Description		Wastewater					
Location		PP1 : น้ำทิ้ง API Separator					
Date Analysis Commenced		Sep 27, 2024					
Condition of Sample		Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2.1	≤20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	31	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	11	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.3	≤40	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	756	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 2540 D	Rayong

Technical

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

TESTING
No.0042
Lot ID: 24112643
Date Received : Sep 27, 2024
Date Reported : Oct 04, 2024
Report Number : 3123948-1

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 : Narunat thammassaro นารุนาถธรรมสารอ น-323-า-0052 , Kardbundit Kitisupavanit ศักดิ์บุญญานนท์ น-204-า-0001

Remark :
- LOD : Limit of Detection
- "L" : 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.

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Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location: TPE Site 1

Lot ID: 24112643
Date Received : Sep 27, 2024
Date Reported : Oct 04, 2024
Report Number : 3123948-2

Page 1 of 1.

Analysis / Test Report

Sample Number	24112643-1			
Sampled Date	Sep 27, 2024 3:20 PM			
Sample Description	Wastewater			
Location	PP1 : น้ำทิ้ง API Separator			
Date Analysis Commenced	Sep 27, 2024			
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	179	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.007	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	<0.001	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

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

Sampling v/v : Narurat thammassaro , Kardbundit Kitisupavant

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

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Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location: TPE Site 1

Lot ID: 24107336
Date Received : J ct 04, 2024
Date Reported : J ct 12, 2024
Report 9umNer : 3113373-1

Page 1 of 2.

Analysis / Test Report

Sample Number	24107336-1			
Sampled Date	J ct 04, 2024 7:50 AM			
Sample Description	8 aseWater			
Location	PP1 : น้ำทิ้ง API Separator			
Date Analysis Commenced	J ct 04, 2024			
Condition of Sample	Contained in two glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards WPA, HSEPAU			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
J J D v6 days at 20 Degree CU	mg/L	-	2.0	F 2.0	≤20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 (J ct 4500 - J ct 8	Rayong
Cl D	mg/L	1.5	25	F 25	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color wet J riginal p(U	ADMI	-	5	10	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 x	Rayong
Color wet p(f .0U	ADMI	-	5	7	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 x	Rayong
J J O &rease	mg/L	-	3	F 3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 (J ct 4500 - J ct 8	Rayong
p(at 25 degree C	-	-	-	f .7	5.5-7.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Temperature G	Degree C	-	-	32.7	≤40	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 (J ct 4500 - J ct 8	Rayong
Total Dissolved Solids Dried at 1-0 degree C	mg/L	-	5	5<<	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	F 5	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Lot ID: 24117369
Date Received : Nov 08, 2024
Date Reported : Dec 24, 2024
Report Number : 3135850-2 Rev. No.1

Page 1 of 1.

Sample Number	24117369-1				
Sampled Date	Nov 08, 2024 9:44 AM				
Sample Description	Wastewater				
Location	PP1 : น้ำทิ้ง API Separator				
Date Analysis Commenced	Nov 08, 2024				
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	115	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.007	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	<0.001	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

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

Note : This Analysis test report is reissued to supersede report No.3135850-2, Date Reported : Nov 16, 2024 due to revise analytical information.

Sampling vy : Chainosorn Lertnarthakunchal , Pattarapol Sawangjaitam

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
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Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Lot ID: 24131589
Date Received : Dec 11, 2027
Date Reported : Dec 14, 2027
Report Number : 3100098-1

Page 1 of 2

Sample Number	27131584-1				
Sampled Date	Dec 11, 2027 4:73 AM				
Sample Description	6 aseWater				
Location	PP1 : น้ำทิ้ง API Separator				
Date Analysis Commenced	Dec 11, 2027				
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards WPA, HSEPAU				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
) BD v6 days at 20 Degree CU	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 5210), part 7500 - B G	Rayong
CBD	mg/L	1.5	25	34	≤120	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 5220 D	Rayong
Color vet Brignal p(U	ADMI	-	5	17	≤300	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 2120 F	Rayong
Color vet p(0.0U	ADMI	-	5	17	≤300	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 2120 F	Rayong
Bl & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 5520)	Rayong
p(at 25 degree C		-	-	0.5	5.5-4.0	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 7500 - (v) U	Rayong
Temperature *	Degree C	-	-	32.3	≤70	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 2550)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	007	≤3000	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 2570 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤50	Standard Methods for the Examination of 6 ater and 6 aseWater. AP (A, A6 6 A & 6 EF, 27th ed., 2023, part 2570 D	Rayong

Technical Management

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PMW-23-11

Project Name : Environmental Monitoring

Project Location: TPE Site 1

TESTING
No.0042

Lot ID: 24131589

Date Received : Dec 11, 2027

Date Reported : Dec 14, 2027

Report Number : 3100098-1

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 00). E.2590 v01Q1

Sampling By : 6 asan Kinunti รหัสพนักงาน 7-323-a-0014 , Samart Khumphlee รหัสพนักงาน 7-207-a-0087

Remark :

- LBD : Limit of Detection
- "<" : Lower than LBQ Limit of Quantitation/ LBR Limit of Reporting
- Analytical Unmarked * is/are not included in scope of Accreditation ISB/IEC 10025.
- The laboratory has been accepted as an accredited laboratory complying With the ISB/IEC 10025.



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PMW-23-11

Project Name : Environmental Monitoring

Project Location: TPE Site 1

Lot ID: 24131589

Date Received : Dec 11, 2027

Date Reported : Dec 27, 2027

Report 8 umlNr : 3140009-2 Rev. 8o.1

Page 1 of 1

Sample Number	2713159F-1
Sampled Date	Dec 11, 2027 f:73 AM
Sample Description	6 aste/Water
Location	PP1 : น้ำจาก API Separator
Date Analysis Commenced	Dec 11, 2027
Condition of Sample	Contained in four glass vials, one amber glass Nottle and three plastic Nottles, sample containers comply to pretreatment - preservation standards WPA, HSEPAU

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	140	8o Standard	Standard Methods for the Examination of Water and Wastewater, 27th ed., 2023, part 7500-Cl v0U	Rayong
8oW rate	m3/s	-	-	0.000	8o Standard	8oW meter	Rayong
n-(e)ane	mg/L	-	0.001	k 0.001	8o Standard	Standard Methods for the Examination of Water and Wastewater, 27th ed., 2023, part 0200 F	FangBoB

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 04, F.E.2500 v014U

Note : This Analysis test report is issued to supersede report 8o.3140009-2, Date Reported : Dec 1f , 2027 due to revise analytical information.

Sampling vy : 6 asan Jinunti , Samart J humphlee

RemarkB :

- LKD : Limit of Detection
- "k" : Lower than LKQ Limit of Quantitation/ LKR Limit of Reporting

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S:\Report\W\Reg_AIL_GL_rpt_wt-52PMU



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PMW-23-11

Project Name : Environmental Monitoring

Project Location: TPE Site 1

TESTING
No.0042

Lot ID: 24131589

Date Received : Dec 11, 2027

Date Reported : Dec 14, 2027

Report Number : 3100098-1

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 00). E.2590 v01Q1

Sampling By : 6 asan Kinunti รหัสพนักงาน 7-323-a-0014 , Samart Khumphlee รหัสพนักงาน 7-207-a-0087

Remark :

- LBD : Limit of Detection
- "<" : Lower than LBQ Limit of Quantitation/ LBR Limit of Reporting
- Analytical Unmarked * is/are not included in scope of Accreditation ISB/IEC 10025.
- The laboratory has been accepted as an accredited laboratory complying With the ISB/IEC 10025.



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PMW-23-11

Project Name : Environmental Monitoring

Project Location: TPE Site 1

Lot ID: 24131589

Date Received : Dec 11, 2027

Date Reported : Dec 27, 2027

Report 8 umlNr : 3140009-2 Rev. 8o.1

Page 1 of 1

Sample Number	2713159F-1
Sampled Date	Dec 11, 2027 f:73 AM
Sample Description	6 aste/Water
Location	PP1 : น้ำจาก API Separator
Date Analysis Commenced	Dec 11, 2027
Condition of Sample	Contained in four glass vials, one amber glass Nottle and three plastic Nottles, sample containers comply to pretreatment - preservation standards WPA, HSEPAU

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	140	8o Standard	Standard Methods for the Examination of Water and Wastewater, 27th ed., 2023, part 7500-Cl v0U	Rayong
8oW rate	m3/s	-	-	0.000	8o Standard	8oW meter	Rayong
n-(e)ane	mg/L	-	0.001	k 0.001	8o Standard	Standard Methods for the Examination of Water and Wastewater, 27th ed., 2023, part 0200 F	FangBoB

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 04, F.E.2500 v014U

Note : This Analysis test report is issued to supersede report 8o.3140009-2, Date Reported : Dec 1f , 2027 due to revise analytical information.

Sampling vy : 6 asan Jinunti , Samart J humphlee

RemarkB :

- LKD : Limit of Detection
- "k" : Lower than LKQ Limit of Quantitation/ LKR Limit of Reporting

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong

Thailand 21150

PMM-SCGCH-2019-343

[illegible]

Name : ENVIRON
Location: PP1_S1

Sample Number	2469064-1
---------------	-----------

Sampling Date: 7/1/05 20:24:10:05 AM

Sampling Date	Wetland	Sample - Dominant Species	Wetland	Sample - Dominant Species
Jul 05, 2021				

Sample Description	Wastewater
1. <i>Staphylococcus aureus</i>	100
2. <i>Escherichia coli</i>	100
3. <i>Pseudomonas aeruginosa</i>	100
4. <i>Salmonella enterica</i>	100
5. <i>Legionella pneumophila</i>	100
6. <i>Cryptosporidium parvum</i>	100
7. <i>Toxigenic E. coli</i>	100
8. <i>Shigella flexneri</i>	100
9. <i>Yersinia enterocolitica</i>	100
10. <i>Acinetobacter baumannii</i>	100
11. <i>Mycobacterium tuberculosis</i>	100
12. <i>Neisseria meningitidis</i>	100
13. <i>Streptococcus pneumoniae</i>	100
14. <i>Haemophilus influenzae</i>	100
15. <i>Chlamydia trachomatis</i>	100
16. <i>Legionella pneumophila</i>	100
17. <i>Cryptosporidium parvum</i>	100
18. <i>Toxigenic E. coli</i>	100
19. <i>Shigella flexneri</i>	100
20. <i>Yersinia enterocolitica</i>	100
21. <i>Acinetobacter baumannii</i>	100
22. <i>Mycobacterium tuberculosis</i>	100
23. <i>Neisseria meningitidis</i>	100
24. <i>Streptococcus pneumoniae</i>	100
25. <i>Haemophilus influenzae</i>	100
26. <i>Chlamydia trachomatis</i>	100
27. <i>Legionella pneumophila</i>	100
28. <i>Cryptosporidium parvum</i>	100
29. <i>Toxigenic E. coli</i>	100
30. <i>Shigella flexneri</i>	100
31. <i>Yersinia enterocolitica</i>	100
32. <i>Acinetobacter baumannii</i>	100
33. <i>Mycobacterium tuberculosis</i>	100
34. <i>Neisseria meningitidis</i>	100
35. <i>Streptococcus pneumoniae</i>	100
36. <i>Haemophilus influenzae</i>	100
37. <i>Chlamydia trachomatis</i>	100
38. <i>Legionella pneumophila</i>	100
39. <i>Cryptosporidium parvum</i>	100
40. <i>Toxigenic E. coli</i>	100
41. <i>Shigella flexneri</i>	100
42. <i>Yersinia enterocolitica</i>	100
43. <i>Acinetobacter baumannii</i>	100
44. <i>Mycobacterium tuberculosis</i>	100
45. <i>Neisseria meningitidis</i>	100
46. <i>Streptococcus pneumoniae</i>	100
47. <i>Haemophilus influenzae</i>	100
48. <i>Chlamydia trachomatis</i>	100
49. <i>Legionella pneumophila</i>	100
50. <i>Cryptosporidium parvum</i>	100
51. <i>Toxigenic E. coli</i>	100
52. <i>Shigella flexneri</i>	100
53. <i>Yersinia enterocolitica</i>	100
54. <i>Acinetobacter baumannii</i>	100
55. <i>Mycobacterium tuberculosis</i>	100
56. <i>Neisseria meningitidis</i>	100
57. <i>Streptococcus pneumoniae</i>	100
58. <i>Haemophilus influenzae</i>	100
59. <i>Chlamydia trachomatis</i>	100
60. <i>Legionella pneumophila</i>	100
61. <i>Cryptosporidium parvum</i>	100
62. <i>Toxigenic E. coli</i>	100
63. <i>Shigella flexneri</i>	100
64. <i>Yersinia enterocolitica</i>	100
65. <i>Acinetobacter baumannii</i>	100
66. <i>Mycobacterium tuberculosis</i>	100
67. <i>Neisseria meningitidis</i>	100
68. <i>Streptococcus pneumoniae</i>	100
69. <i>Haemophilus influenzae</i>	100
70. <i>Chlamydia trachomatis</i>	100
71. <i>Legionella pneumophila</i>	100
72. <i>Cryptosporidium parvum</i>	100
73. <i>Toxigenic E. coli</i>	100
74. <i>Shigella flexneri</i>	100
75. <i>Yersinia enterocolitica</i>	100
76. <i>Acinetobacter baumannii</i>	100
77. <i>Mycobacterium tuberculosis</i>	100
78. <i>Neisseria meningitidis</i>	100
79. <i>Streptococcus pneumoniae</i>	100
80. <i>Haemophilus influenzae</i>	100
81. <i>Chlamydia trachomatis</i>	100
82. <i>Legionella pneumophila</i>	100
83. <i>Cryptosporidium parvum</i>	100
84. <i>Toxigenic E. coli</i>	100
85. <i>Shigella flexneri</i>	100
86. <i>Yersinia enterocolitica</i>	100
87. <i>Acinetobacter baumannii</i>	100
88. <i>Mycobacterium tuberculosis</i>	100
89. <i>Neisseria meningitidis</i>	100
90. <i>Streptococcus pneumoniae</i>	100
91. <i>Haemophilus influenzae</i>	100
92. <i>Chlamydia trachomatis</i>	100
93. <i>Legionella pneumophila</i>	100
94. <i>Cryptosporidium parvum</i>	100
95. <i>Toxigenic E. coli</i>	100
96. <i>Shigella flexneri</i>	100
97. <i>Yersinia enterocolitica</i>	100
98. <i>Acinetobacter baumannii</i>	100
99. <i>Mycobacterium tuberculosis</i>	100
100. <i>Neisseria meningitidis</i>	100

Location	การระดมทุน
----------	------------

Date Analysis Commenced	Condition of Sample	Containers
Jul 05, 2024	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	10	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	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	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	322	≤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	14	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical

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Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

Analysis / Test Report

Lot ID: 2469064
Date Received : Jul 05, 2024
Date Reported : Aug 07, 2024
Report Number : 3027873-2 C3

Page 1 of 1

Sample Number		2469064-1	
Sampled Date		Jul 05, 2024 10:05 AM	
Sample Description		Wastewater	
Location		โรงงานกระดาษ	
Date Analysis Commenced		Jul 05, 2024	
Condition of Sample		Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	72	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.041	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	0.01	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

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

Sampled By : Phongthep Sitthiloh , Thanasoun Namakunna

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

TESTING
No.0042
Lot ID: 2479048

Date Received : Aug 02, 2024
Date Reported : Aug 10, 2024
Report Number : 3051075-1 C3

Page 1 of 2

Sample Number		2479048-1	
Sampled Date		Aug 02, 2024 10:58 AM	
Sample Description		Wastewater	
Location		โรงงานกระดาษ	
Date Analysis Commenced		Aug 02, 2024	
Condition of Sample		Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	36	≤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	9	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.7	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	-	-	33.8	≤40	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	420	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

TESTING
No.0042
Lot ID: 2479048
Date Received : Aug 02, 2024
Date Reported : Aug 10, 2024
Report Number : 3051075-1 C3

Page 2 of 2

Sample Number		2479048-1	
Sampled Date		Aug 02, 2024 10:58 AM	
Sample Description		Wastewater	
Location		โรงงานพลาสติก	
Date Analysis Commenced		Aug 02, 2024	
Condition of Sample		Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	

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

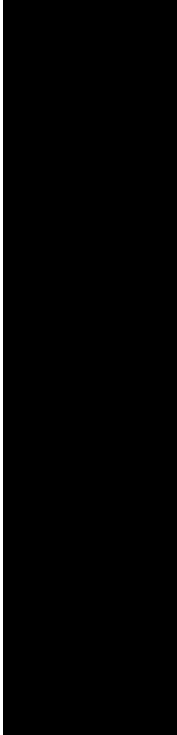
Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Paramet Sattayakun เลขที่ใบอนุญาต ร.204-3-0002

Remark :

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

Technical Management



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

Lot ID: 2479048
Date Received : Aug 02, 2024
Date Reported : Aug 10, 2024
Report Number : 3051075-2 C3

Page 1 of 1

Sample Number		2479048-1	
Sampled Date		Aug 02, 2024 10:58 AM	
Sample Description		Wastewater	
Location		โรงงานพลาสติก	
Date Analysis Commenced		Aug 02, 2024	
Condition of Sample		Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	106	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.021	No Standard	Flow meter, Analyzed by Client	Rayong
n-Hexane	mg/L	-	0.001	0.006	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

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

Sampled By : Paramet Sattayakun , Pattarapol Sawangjalarn

Remark :

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location: PPI_S1

TESTING
No.0042
Lot ID: 2495520

Date Received : Sep 12, 2024

Date Reported : Sep 21, 2024

Report Number: 3087129-1 C3

Page 1 of 2

Sample Number	2495520-1			
Sampled Date	Sep 12, 2024	9:51 AM		
Sample Description	Wastewater			
Location	โรงงานน้ำตาล			
Date Analysis Commenced	Sep 12, 2024			
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	13	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	12	≤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		-	-	7.9	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	-	-	33.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	716	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location: PPI_S1

TESTING
No.0042
Lot ID: 2495520

Date Received : Sep 12, 2024

Date Reported : Sep 21, 2024

Report Number: 3087129-1 C3

Page 2 of 2

Sample Number	2495520-1			
Sampled Date	Sep 12, 2024	9:51 AM		
Sample Description	Wastewater			
Location	โรงงานน้ำตาล			
Date Analysis Commenced	Sep 12, 2024			
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampled By : Nattawat Athomprommarat รหัสประจำตัว 3-323-3-0006 , Thanasoun Namakumna รหัสประจำตัว 3-204-3-0101

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PPI_S1

Lot ID: 2495520
Date Received : Sep 12, 2024
Date Reported : Sep 21, 2024
Report Number : 3087129-2 C3

Page 1 of 1

Sample Number	2495520-1
Sampled Date	Sep 12, 2024 9:51 AM
Sample Description	Wastewater
Location	โรงงานอุตสาหกรรม
Date Analysis Commenced	Sep 12, 2024
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	119	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.022	No Standard	Flow meter, Analyzed by Client	Rayong
n-Hexane	mg/L	-	0.001	<0.001	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

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

Sampled By : Nattawut Atthomprommarat , Thanasoun Namakunna

Remark :
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PPI_S1

Lot ID: 24107287
Date Received : Oct 04, 2024
Date Reported : Oct 12, 2024
Report Number : 3113299-1 C3

Page 1 of 2

Sample Number	24107287-1
Sampled Date	Oct 04, 2024 11:06 AM
Sample Description	Wastewater
Location	โรงงานอุตสาหกรรม
Date Analysis Commenced	Oct 04, 2024
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	576	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Technical Management

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location: PP1_S1

TESTING
No.0042

Lot ID: 24107287

Date Received : Oct 04, 2024

Date Reported : Oct 12, 2024

Report Number : 3113299-1 C3

Page 2 of 2

Sample Number	24107287-1				
Sampled Date	Oct 04, 2024 11:06 AM				
Sample Description	Wastewater				
Location	โรงงานน้ำตาล				
Date Analysis Commenced	Oct 04, 2024				
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

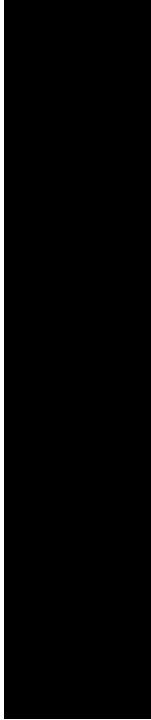
Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampled By : Paramet Sattayakun เลขประจำตัวประชาชน 9-204-3-0002

Remark:

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

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location: PP1_S1

Lot ID: 24107287

Date Received : Oct 04, 2024

Date Reported : Oct 12, 2024

Report Number : 3113299-2 C3

Page 1 of 1

Sample Number	24107287-1				
Sampled Date	Oct 04, 2024 11:06 AM				
Sample Description	Wastewater				
Location	โรงงานน้ำตาล				
Date Analysis Commenced	Oct 04, 2024				
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	115	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (D)	Rayong
Flow rate	m3/s	-	-	0.030	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	<0.001	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

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

Sampled By : Paramet Sattayakun , Pattarapol Sawangjalarn

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location: PPI_S1

TESTING
No.0042
Lot ID: 24116909

Date Received : Nov 08, 2024

Date Reported : Nov 18, 2024

Report Number : 3134663-1 C3

Page 1 of 2

Sample Number	24116909-1			
Sampled Date	Nov 08, 2024	10:31 AM		
Sample Description	Wastewater			
Location	โรงงานพลาสติก			
Date Analysis Commenced	Nov 08, 2024			
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	Result	LOQ (LOR)	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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	31	25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	8	5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	6	5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	<3	3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	7.7	-	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	31.1	-	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	492	5	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Technical Management



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-SCGCH-2019-343

Project Name : Environmental Monitoring

Project Location: PPI_S1

TESTING
No.0042
Lot ID: 24116909

Date Received : Nov 08, 2024

Date Reported : Nov 18, 2024

Report Number : 3134663-1 C3

Page 2 of 2

Sample Number	24116909-1			
Sampled Date	Nov 08, 2024	10:31 AM		
Sample Description	Wastewater			
Location	โรงงานพลาสติก			
Date Analysis Commenced	Nov 08, 2024			
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	Result	LOQ (LOR)	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	12	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampled By : Chainusorn Lertthakunchai รหัสพนักงาน 3-323-3-0041 , Pattarapol Sawangjaitam รหัสพนักงาน 3-204-3-0002

Remark :

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PPI_S1

Lot ID: 24116909
Date Received : Nov 08, 2024
Date Reported : Nov 18, 2024
Report Number : 3134663-2 C3

Page 1 of 1

Sample Number	24116909-1		
Sampled Date	Nov 08, 2024 10:31 AM		
Sample Description	Wastewater		
Location	โรงงานพลาสติก		
Date Analysis Commenced	Nov 09, 2024		
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)		

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	126	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (D)	Rayong

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

Sampled By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaliam

Remark :
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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGCH-2019-343
Project Name : Environmental Monitoring
Project Location: PPI_S1

Lot ID: 24116909
Date Received : Nov 08, 2024
Date Reported : Nov 18, 2024
Report Number : 3134663-3 C3

Page 1 of 1

Sample Number	24116909-1				
Sampled Date	Nov 08, 2024 10:31 AM				
Sample Description	Wastewater				
Location	โรงงานพลาสติก				
Date Analysis Commenced	Nov 08, 2024				
Condition of Sample	Contained in one amber glass bottle, four glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.029	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	0.011	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

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

Sampled By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaliam

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

TESTING
No.0042
Lot ID: 24131543
Date Received : Dec 11, 2024
Date Reported : Dec 23, 2024
Report Number : 3169916-1 C3

Page 1 of 2

Sample Number	24131543-1				
Sampled Date	Dec 11, 2024 10:57 AM				
Sample Description	Wastewater				
Location	โรงงานอุตสาหกรรม				
Date Analysis Commenced	Dec 11, 2024				
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				

Analyte	Unit	LOD	Result	LOQ (LOR)	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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	31	25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	12	5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	12	5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	<3	3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	7.8	-	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	31.9	-	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	640	5	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Technical Management



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

TESTING
No.0042
Lot ID: 24131543
Date Received : Dec 11, 2024
Date Reported : Dec 23, 2024
Report Number : 3169916-1 C3

Page 2 of 2

Sample Number	24131543-1						
Sampled Date	Dec 11, 2024 10:57 AM						
Sample Description	Wastewater						
Location	โรงงานอุตสาหกรรม						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	Result	LOQ (LOR)	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	18	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampled By : Wasan Kinunti รหัสประจำตัว 3-323-3-0019 , Samart Khumphlee รหัสประจำตัว 3-204-3-0084

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-SCGH-2019-343
Project Name : Environmental Monitoring
Project Location: PP1_S1

Lot ID: 24131543
Date Received : Dec 11, 2024
Date Reported : Dec 23, 2024
Report Number : 3169916-2 C3

Page 1 of 1

Sample Number	24131543-1						
Sampled Date	Dec 11, 2024 10:57 AM						
Sample Description	Wastewater						
Location	โรงงานอุตสาหกรรม						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in four glass vials, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.5	1	138	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-C (D)	Rayong
Flow rate	m3/s	-	-	0.018	No Standard	Flow meter	Rayong
n-Hexane	mg/L	-	0.001	0.014	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

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

Sampled By : Wasan Kinunti , Samart Khumphlee

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No responsibility is accepted for errors arising from misinterpretation of results or from the use of data for purposes not intended by ALS. The Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



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ภาคผนวก ค-3

ระดับเสียงทั่วไป



TESTING
No.0042

Lot ID: 24116890

Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176731-1



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Page 1 of 1

Sample Number	24116890-1
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 13 - Nov 14, 2024
Measurement by	Anuwet Tena
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.2	81.0	56.8
02:00 PM - 03:00 PM	59.0	74.7	57.0
03:00 PM - 04:00 PM	59.2	75.1	57.4
04:00 PM - 05:00 PM	60.2	81.5	58.1
05:00 PM - 06:00 PM	60.6	80.3	58.0
06:00 PM - 07:00 PM	59.7	75.9	58.3
07:00 PM - 08:00 PM	59.5	76.7	58.0
08:00 PM - 09:00 PM	60.0	77.7	58.5
09:00 PM - 10:00 PM	59.9	74.5	58.8
10:00 PM - 11:00 PM	59.0	74.5	57.6
11:00 PM - 12:00 AM	58.1	72.7	56.4
12:00 AM - 01:00 AM	59.1	83.6	57.9
01:00 AM - 02:00 AM	58.7	73.6	57.5
02:00 AM - 03:00 AM	59.0	66.2	58.3
03:00 AM - 04:00 AM	60.0	87.9	58.1
04:00 AM - 05:00 AM	59.8	83.7	58.6
05:00 AM - 06:00 AM	60.6	77.5	58.9
06:00 AM - 07:00 AM	61.4	78.1	59.5
07:00 AM - 08:00 AM	61.7	77.7	59.6
08:00 AM - 09:00 AM	62.4	82.1	60.6
09:00 AM - 10:00 AM	61.8	77.6	60.3
10:00 AM - 11:00 AM	61.2	79.7	59.3
11:00 AM - 12:00 PM	59.2	74.0	57.1
12:00 PM - 01:00 PM	59.6	81.2	57.4
Leq Average 24 hrs. (dB(A))	60.1		
Lmax (dB(A))	87.9		
L90 (dB(A))			58.1
Ldn (dB(A))	66.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงในชุมชน พ.ศ. 2540
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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



TESTING
No.0042

Lot ID: 24116890

Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176732-1



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

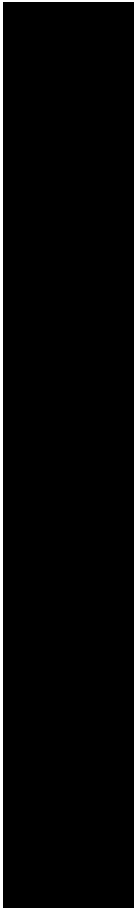
Page 1 of 1

Sample Number	24116890-2
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 14 - Nov 15, 2024
Measurement by	Anuwet Tena
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	64.6	87.2	58.8
02:00 PM - 03:00 PM	61.2	86.8	59.1
03:00 PM - 04:00 PM	61.6	89.3	59.4
04:00 PM - 05:00 PM	61.3	81.6	59.4
05:00 PM - 06:00 PM	65.3	90.1	59.6
06:00 PM - 07:00 PM	63.3	87.8	59.9
07:00 PM - 08:00 PM	60.9	73.1	59.6
08:00 PM - 09:00 PM	60.2	82.2	59.1
09:00 PM - 10:00 PM	60.2	75.6	59.1
10:00 PM - 11:00 PM	59.6	75.7	58.4
11:00 PM - 12:00 AM	60.6	72.4	58.8
12:00 AM - 01:00 AM	60.0	75.6	58.9
01:00 AM - 02:00 AM	59.8	80.0	58.3
02:00 AM - 03:00 AM	59.6	71.2	58.6
03:00 AM - 04:00 AM	59.6	68.7	58.2
04:00 AM - 05:00 AM	59.8	69.7	58.8
05:00 AM - 06:00 AM	60.6	78.5	58.9
06:00 AM - 07:00 AM	61.7	76.1	59.7
07:00 AM - 08:00 AM	61.2	76.7	59.7
08:00 AM - 09:00 AM	60.5	75.6	58.8
09:00 AM - 10:00 AM	59.9	78.6	57.5
10:00 AM - 11:00 AM	59.9	72.9	57.7
11:00 AM - 12:00 PM	58.9	75.5	56.8
12:00 PM - 01:00 PM	59.7	79.7	57.8
Leq Average 24 hrs. (dB(A))	61.2		
Lmax (dB(A))	90.1		
L90 (dB(A))			58.8
Ldn (dB(A))	66.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงในชุมชน พ.ศ. 2540
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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





TESTING
No.0042

Lot ID: 24116890

Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176733-1

Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Sample Number	24116890-3
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 15 - Nov 16, 2024
Measurement by	Anuwet Tenna
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.5	78.3	57.5
02:00 PM - 03:00 PM	59.4	80.7	57.0
03:00 PM - 04:00 PM	59.9	80.0	57.6
04:00 PM - 05:00 PM	59.8	71.7	58.0
05:00 PM - 06:00 PM	59.8	75.6	58.0
06:00 PM - 07:00 PM	59.4	77.5	57.3
07:00 PM - 08:00 PM	59.4	76.6	57.6
08:00 PM - 09:00 PM	59.2	72.5	57.9
09:00 PM - 10:00 PM	59.7	80.4	58.0
10:00 PM - 11:00 PM	59.3	74.1	58.0
11:00 PM - 12:00 AM	58.9	74.5	57.5
12:00 AM - 01:00 AM	59.3	76.3	57.8
01:00 AM - 02:00 AM	59.7	76.7	58.3
02:00 AM - 03:00 AM	58.8	80.0	57.6
03:00 AM - 04:00 AM	59.4	69.4	58.6
04:00 AM - 05:00 AM	59.4	67.2	58.3
05:00 AM - 06:00 AM	60.3	74.4	59.0
06:00 AM - 07:00 AM	61.1	74.2	59.3
07:00 AM - 08:00 AM	60.9	74.8	58.7
08:00 AM - 09:00 AM	59.8	75.7	58.3
09:00 AM - 10:00 AM	59.1	70.5	57.3
10:00 AM - 11:00 AM	58.2	77.4	56.4
11:00 AM - 12:00 PM	57.7	71.2	56.0
12:00 PM - 01:00 PM	58.9	73.2	56.6

Leq Average 24 hrs. (dB(A))	59.5
Lmax (dB(A))	80.7
L90 (dB(A))	57.8
Ldn (dB(A))	66.0
Standard (dB(A))	70
Reference Method	: ISO1996-1 and 1996-2
Standard	: 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าระดับเสียงที่โรงงานอุตสาหกรรมต้องปฏิบัติตาม พ.ศ. 2540 2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark	: The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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TESTING
No.0042

Lot ID: 24116890

Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176734-1

Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Sample Number	24116890-4
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 16 - Nov 17, 2024
Measurement by	Anuwet Tenna
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	57.6	75.2	56.0
02:00 PM - 03:00 PM	58.7	73.6	57.1
03:00 PM - 04:00 PM	59.1	76.8	56.3
04:00 PM - 05:00 PM	58.9	71.3	57.0
05:00 PM - 06:00 PM	58.7	70.6	56.9
06:00 PM - 07:00 PM	58.8	73.6	57.5
07:00 PM - 08:00 PM	58.6	71.4	57.2
08:00 PM - 09:00 PM	58.0	75.0	56.8
09:00 PM - 10:00 PM	57.9	68.6	56.7
10:00 PM - 11:00 PM	58.4	72.6	56.9
11:00 PM - 12:00 AM	58.7	70.5	57.4
12:00 AM - 01:00 AM	58.6	65.5	57.8
01:00 AM - 02:00 AM	58.5	66.5	57.5
02:00 AM - 03:00 AM	58.5	71.9	57.2
03:00 AM - 04:00 AM	58.9	76.4	57.4
04:00 AM - 05:00 AM	58.6	70.1	57.3
05:00 AM - 06:00 AM	60.3	71.6	58.8
06:00 AM - 07:00 AM	60.4	78.0	58.4
07:00 AM - 08:00 AM	60.4	83.1	58.7
08:00 AM - 09:00 AM	60.6	83.9	58.2
09:00 AM - 10:00 AM	60.4	71.7	58.9
10:00 AM - 11:00 AM	60.8	81.7	57.8
11:00 AM - 12:00 PM	59.7	81.7	57.4
12:00 PM - 01:00 PM	58.7	78.6	56.3

Leq Average 24 hrs. (dB(A))	59.2
Lmax (dB(A))	83.9
L90 (dB(A))	57.3
Ldn (dB(A))	65.5
Standard (dB(A))	70
Reference Method	: ISO1996-1 and 1996-2
Standard	: 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าระดับเสียงที่โรงงานอุตสาหกรรมต้องปฏิบัติตาม พ.ศ. 2540 2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark	: The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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TESTING
No.0042

Lot ID: 24116890

Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176735-1

Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Sample Number	24116890-5
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 17 - Nov 18, 2024
Measurement by	Anuwet Tena
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.2	80.8	57.2
02:00 PM - 03:00 PM	58.4	70.2	56.3
03:00 PM - 04:00 PM	63.3	94.0	56.6
04:00 PM - 05:00 PM	61.8	82.3	59.9
05:00 PM - 06:00 PM	60.8	80.4	59.4
06:00 PM - 07:00 PM	60.4	75.0	59.4
07:00 PM - 08:00 PM	60.3	73.0	59.3
08:00 PM - 09:00 PM	60.4	69.0	59.6
09:00 PM - 10:00 PM	60.7	84.0	59.4
10:00 PM - 11:00 PM	60.8	81.2	59.7
11:00 PM - 12:00 AM	60.1	75.7	58.5
12:00 AM - 01:00 AM	60.0	76.3	59.1
01:00 AM - 02:00 AM	59.5	68.8	58.4
02:00 AM - 03:00 AM	59.8	71.0	58.6
03:00 AM - 04:00 AM	60.0	73.3	58.8
04:00 AM - 05:00 AM	60.7	70.3	59.8
05:00 AM - 06:00 AM	61.9	73.0	60.5
06:00 AM - 07:00 AM	62.2	74.9	60.2
07:00 AM - 08:00 AM	61.3	78.1	59.5
08:00 AM - 09:00 AM	60.6	77.7	59.2
09:00 AM - 10:00 AM	60.2	78.7	58.9
10:00 AM - 11:00 AM	59.6	74.8	57.8
11:00 AM - 12:00 PM	59.5	78.2	58.1
12:00 PM - 01:00 PM	59.2	76.6	57.5

Leq Average 24 hrs. (dB(A))	60.6
Lmax (dB(A))	94.0
L90 (dB(A))	59.1
Ldn (dB(A))	67.0
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าระดับเสียงในโรงงานอุตสาหกรรม และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	



Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Sample Number	24116890-6
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 18 - Nov 19, 2024
Measurement by	Anuwet Tena
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.3	75.0	57.7
02:00 PM - 03:00 PM	59.2	72.8	57.0
03:00 PM - 04:00 PM	59.3	73.3	57.3
04:00 PM - 05:00 PM	59.6	77.4	57.2
05:00 PM - 06:00 PM	60.5	80.3	58.9
06:00 PM - 07:00 PM	60.0	72.3	58.6
07:00 PM - 08:00 PM	60.3	75.8	59.0
08:00 PM - 09:00 PM	60.6	77.6	59.4
09:00 PM - 10:00 PM	60.6	75.9	59.4
10:00 PM - 11:00 PM	60.2	72.6	59.0
11:00 PM - 12:00 AM	60.3	74.9	59.1
12:00 AM - 01:00 AM	60.2	82.3	59.0
01:00 AM - 02:00 AM	59.5	71.1	58.1
02:00 AM - 03:00 AM	60.0	68.8	59.2
03:00 AM - 04:00 AM	60.0	68.8	59.1
04:00 AM - 05:00 AM	60.7	71.4	59.4
05:00 AM - 06:00 AM	61.3	72.1	59.9
06:00 AM - 07:00 AM	61.8	74.5	60.4
07:00 AM - 08:00 AM	61.5	80.1	60.1
08:00 AM - 09:00 AM	61.2	78.7	59.6
09:00 AM - 10:00 AM	60.1	77.0	58.4
10:00 AM - 11:00 AM	59.8	71.4	58.3
11:00 AM - 12:00 PM	59.6	73.8	58.2
12:00 PM - 01:00 PM	59.7	69.2	58.3

Leq Average 24 hrs. (dB(A))	60.3
Lmax (dB(A))	82.3
L90 (dB(A))	59.0
Ldn (dB(A))	66.9
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าระดับเสียงในโรงงานอุตสาหกรรม และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	



TESTING
No.0042

Lot ID: 24116890

Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176736-1

Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

Sample Number	24116890-6
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานกลุ่มโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 18 - Nov 19, 2024
Measurement by	Anuwet Tena
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.3	75.0	57.7
02:00 PM - 03:00 PM	59.2	72.8	57.0
03:00 PM - 04:00 PM	59.3	73.3	57.3
04:00 PM - 05:00 PM	59.6	77.4	57.2
05:00 PM - 06:00 PM	60.5	80.3	58.9
06:00 PM - 07:00 PM	60.0	72.3	58.6
07:00 PM - 08:00 PM	60.3	75.8	59.0
08:00 PM - 09:00 PM	60.6	77.6	59.4
09:00 PM - 10:00 PM	60.6	75.9	59.4
10:00 PM - 11:00 PM	60.2	72.6	59.0
11:00 PM - 12:00 AM	60.3	74.9	59.1
12:00 AM - 01:00 AM	60.2	82.3	59.0
01:00 AM - 02:00 AM	59.5	71.1	58.1
02:00 AM - 03:00 AM	60.0	68.8	59.2
03:00 AM - 04:00 AM	60.0	68.8	59.1
04:00 AM - 05:00 AM	60.7	71.4	59.4
05:00 AM - 06:00 AM	61.3	72.1	59.9
06:00 AM - 07:00 AM	61.8	74.5	60.4
07:00 AM - 08:00 AM	61.5	80.1	60.1
08:00 AM - 09:00 AM	61.2	78.7	59.6
09:00 AM - 10:00 AM	60.1	77.0	58.4
10:00 AM - 11:00 AM	59.8	71.4	58.3
11:00 AM - 12:00 PM	59.6	73.8	58.2
12:00 PM - 01:00 PM	59.7	69.2	58.3

Leq Average 24 hrs. (dB(A))	60.3
Lmax (dB(A))	82.3
L90 (dB(A))	59.0
Ldn (dB(A))	66.9
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าระดับเสียงในโรงงานอุตสาหกรรม และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : TPE Site 1

TESTING
No.0042
Lot ID: 24116890
Date Received : Nov 21, 2024
Date Reported : Nov 26, 2024
Report Number: 3176737-1

Page 1 of 1

Sample Number	24116890-7
Parameter	Noise (Leq 24 hrs.)
Location	อาคารสำนักงานของโรงงาน TPE Site#1 (GPS 47P 0731760, 1404872)
Measurement Date	Nov 19 - Nov 20, 2024
Measurement by	Anuwet Terna
Sound Level meter	Serial No. 597169

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	60.2	74.8	58.5
02:00 PM - 03:00 PM	60.5	81.9	58.6
03:00 PM - 04:00 PM	60.5	81.7	58.5
04:00 PM - 05:00 PM	59.4	75.3	57.3
05:00 PM - 06:00 PM	60.5	81.2	58.7
06:00 PM - 07:00 PM	60.9	80.1	59.1
07:00 PM - 08:00 PM	60.7	78.0	59.3
08:00 PM - 09:00 PM	60.7	80.5	59.1
09:00 PM - 10:00 PM	60.7	72.9	59.7
10:00 PM - 11:00 PM	60.1	73.3	58.6
11:00 PM - 12:00 AM	60.4	78.0	59.1
12:00 AM - 01:00 AM	60.4	78.3	59.3
01:00 AM - 02:00 AM	60.7	76.6	59.7
02:00 AM - 03:00 AM	60.8	75.2	59.7
03:00 AM - 04:00 AM	60.4	69.5	59.4
04:00 AM - 05:00 AM	60.3	72.3	59.3
05:00 AM - 06:00 AM	62.0	74.2	60.6
06:00 AM - 07:00 AM	62.2	73.2	60.9
07:00 AM - 08:00 AM	61.7	80.0	59.7
08:00 AM - 09:00 AM	61.3	77.4	60.0
09:00 AM - 10:00 AM	61.3	86.9	59.6
10:00 AM - 11:00 AM	66.6	87.1	59.5
11:00 AM - 12:00 PM	60.5	88.5	58.5
12:00 PM - 01:00 PM	60.4	76.4	58.8

Leq Average 24 hrs. (dB(A))	61.3
Lmax (dB(A))	88.5
L90 (dB(A))	59.3
Ldn (dB(A))	67.4
Standard (dB(A))	70
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงในชุมชน ฉบับที่ 15 (พ.ศ. 2540) เพื่อกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ากำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
ทั้งสาม พ.ศ. 2548

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



ภาคผนวก ค-4

คุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479545
Date Received : Sep 03, 2024
Date Reported : Sep 13, 2024
Report Number : 3052396-1

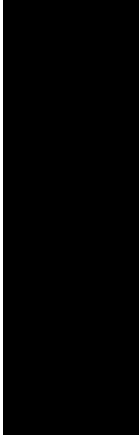
Page 1 of 4

Sample Number 2479545-1
Sampled Date Sep 02, 2024
Sample Description Air Quality
Location พลาซาด้าเมืองใหม่
Date Analysis Commenced Sep 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Ethylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-18	ACGIH Bangkok
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	1.06	500	NIOSH (2003), 1500	MOL Bangkok
Propylene	09:00 AM - 11:00 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	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 : Norranon Tathongkham

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



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 is not responsible for any recommendations that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479545
Date Received : Sep 03, 2024
Date Reported : Sep 13, 2024
Report Number : 3052396-1

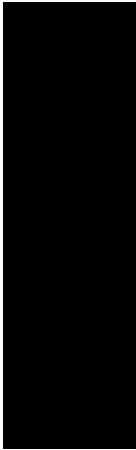
Page 2 of 4

Sample Number 2479545-2
Sampled Date Sep 02, 2024
Sample Description Air Quality
Location พลาซาด้าเมืองใหม่
Date Analysis Commenced Sep 04, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
n-Hexane	09:00 AM - 11:00 AM	ppm	-	0.03	1.25	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 : Norranon Tathongkham

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



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479545
Date Received : Sep 03, 2024
Date Reported : Sep 13, 2024
Report Number : 3052396-1

Page 3 of 4

Sample Number	2479545-3
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	นิคมอุตสาหกรรม
Date Analysis Commenced	Sep 06, 2024
Condition of Sample	Drawn into one filter paper placed in plastic cassette
Barometric Pressure	755 mmHg
Atmospheric Temperature	30.2 °C
Analyte	
Air Testing	
Total Dust	09:00 AM - 11:00 AM mg/m3 - 0.15 <0.15 15 Based on NIOSH (1994), OSHA 0500 Rayong

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Norranon Tathongkham

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479545
Date Received : Sep 03, 2024
Date Reported : Sep 13, 2024
Report Number : 3052396-1

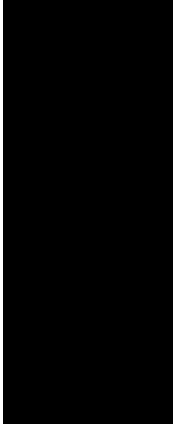
Page 4 of 4

Sample Number	2479545-4
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	Extruder (นิคมอุตสาหกรรม)
Date Analysis Commenced	Sep 04, 2024
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure	755 mmHg
Atmospheric Temperature	30.2 °C
Analyte	
Air Testing	
Ethylene	09:00 AM - 11:00 AM ppm - 1.0 <1.0 200 Based on ASTM, D 2712-18 Bangkok
n-Hexane	09:00 AM - 11:00 AM ppm - 0.03 <0.03 500 NIOSH (2003), 1500 Bangkok
Propylene	09:00 AM - 11:00 AM ppm - 1.0 <1.0 500 Based on ASTM, D 2712-91 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 : Norranon Tathongkham

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117360
Date Received : Nov 06, 2024
Date Reported : Nov 18, 2024
Report Number : 3135833-1

Page 1 of 4

Sample Number	24117360-1
Sampled Date	Nov 04, 2024
Sample Description	Air Quality
Location	หน่วยผลิตพลาสติก
Date Analysis Commenced	Nov 07, 2024
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	32.6 °C

Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing							
Ethylene	09:30 AM - 11:30 AM	ppm	-	<1.0	200	Based on ASTM, D 2712-18	ACGIH Bangkok
n-Hexane	09:30 AM - 11:30 AM	ppm	-	0.03	0.11	NIOSH (2003), 1500	MOL Bangkok
Propylene	09:30 AM - 11:30 AM	ppm	-	<1.0	500	Based on ASTM, D 2712-91	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 : Romnachai Mouringma

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

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117360
Date Received : Nov 06, 2024
Date Reported : Nov 18, 2024
Report Number : 3135833-1

Page 2 of 4

Sample Number	24117360-2
Sampled Date	Nov 04, 2024
Sample Description	Air Quality
Location	หน่วยผลิตพลาสติก
Date Analysis Commenced	Nov 08, 2024
Condition of Sample	Drawn into one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	32.6 °C

Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing							
n-Hexane	09:30 AM - 11:30 AM	ppm	-	0.03	0.08	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 : Romnachai Mouringma

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

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 is not responsible for any errors or omissions that may appear in this report. This report is not reproduced except in full.





Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117360
Date Received : Nov 06, 2024
Date Reported : Nov 18, 2024
Report Number : 3135833-1

Page 3 of 4

Sample Number	24117360-3							
Sampled Date	Nov 04, 2024							
Sample Description	Air Quality							
Location	พลาซ่าดุริแอสฟัลท์							
Date Analysis Commenced	Nov 08, 2024							
Condition of Sample	Drawn into one filter paper placed in plastic cassette							
Barometric Pressure	756 mmHg							
Atmospheric Temperature	32.6 °C							
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Total Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA 0500	Rayong

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Ronnachai Moungma

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

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. This report is not reproduced except in full.



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117360
Date Received : Nov 06, 2024
Date Reported : Nov 18, 2024
Report Number : 3135833-1

Page 4 of 4

Sample Number	24117360-4							
Sample Date	Nov 04, 2024							
Sample Description	Air Quality							
Location	Extruder (พลาซาดูรี)							
Date Analysis Commenced	Nov 07, 2024							
Condition of Sample	Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated							
Barometric Pressure	756 mmHg							
Atmospheric Temperature	32.6 °C							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Ethylene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	200	Based on ASTM, D 2712-18	ACGIH Bangkok
n-Hexane	09:30 AM - 11:30 AM	ppm	-	0.03	0.18	500	NIOSH (2003), 1500	MOL Bangkok
Propylene	09:30 AM - 11:30 AM	ppm	-	1.0	<1.0	500	Based on ASTM, D 2712-91	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 : Ronnachai Moungma

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

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. This report is not reproduced except in full.

ภาคผนวก ค-5

ระดับเสียงในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479549
Date Received : Sep 26, 2024
Date Reported : Oct 02, 2024
Report Number: 3127070-1

Page 1 of 1

Sample Number	2479549-1
Parameter	Noise (Leq 12 hrs.)
Location	หน่วยไฟฟ้าโรงเรือน
Measurement Date	Sep 25, 2024
Measurement by	Amnat Wongsakhen
Time	
08:07 AM - 09:07 AM	81.7
09:07 AM - 10:07 AM	81.6
10:07 AM - 11:07 AM	81.5
11:07 AM - 12:07 PM	81.6
12:07 PM - 01:07 PM	82.0
01:07 PM - 02:07 PM	81.8
02:07 PM - 03:07 PM	81.7
03:07 PM - 04:07 PM	83.3
04:07 PM - 05:07 PM	82.3
05:07 PM - 06:07 PM	81.9
06:07 PM - 07:07 PM	81.7
07:07 PM - 08:07 PM	81.6
Leq Average 12 hrs. (dB(A))	81.9
Lmax (dB(A))	95.1
Standard (dB(A))	87
Reference Method	: ISO1996-1 and 1996-2
Standard	: ปรมาณค่าทางเสียงมาตรฐานห้องทดสอบเสียงมาตรฐานตามข้อกำหนด ในการประกอบกิจการโรงงานเกี่ยวกับสารอันตรายในอุตสาหกรรม พ.ศ.๒๕๔๖



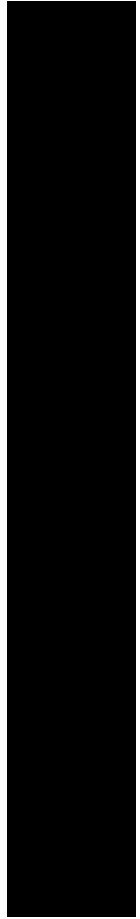
Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479549
Date Received : Sep 26, 2024
Date Reported : Oct 02, 2024
Report Number: 3127071-1

Page 1 of 1

Sample Number	2479549-2
Parameter	Noise (Leq 12 hrs.)
Location	ElWuder (หน่วยไฟฟ้า)
Measurement Date	Sep 25, 2024
Measurement by	Amnat k ongsaPhen
Time	
08:02 AM - 09:02 AM	83.3
09:02 AM - 10:02 AM	84.6
10:02 AM - 11:02 AM	84.1
11:02 AM - 12:02 PM	83.1
12:02 PM - 01:02 PM	82.8
01:02 PM - 02:02 PM	82.9
02:02 PM - 03:02 PM	83.0
03:02 PM - 04:02 PM	86.2
04:02 PM - 05:02 PM	84.3
05:02 PM - 06:02 PM	83.9
06:02 PM - 07:02 PM	84.1
07:02 PM - 08:02 PM	83.4
Leq Average 12 hrs. (dB(A))	83.9
LmaxWdx(A))	100.7
Standard (dB(A))	87
Reference Method	: ISO1996-1 and 1996-2
Standard	: ปรมาณค่าทางเสียงมาตรฐานห้องทดสอบเสียงมาตรฐานตามข้อกำหนด ในการประกอบกิจการโรงงานเกี่ยวกับสารอันตรายในอุตสาหกรรม พ.ศ.๒๕๔๖





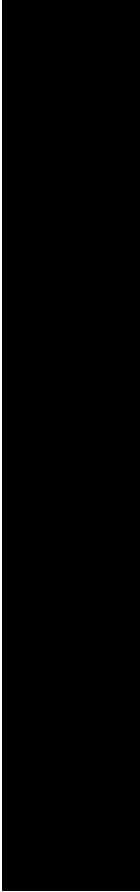
Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479549
Date Received : Sep 26, 2024
Date Reported : Oct 02, 2024
Report Number: 3127072-1

Page 1 of 1

Sample Number	2479549-3
Parameter	Noise (Leq 12 hrs.)
Location	Compressor (via underground Vent Gas and Nitrogen)
Measurement Date	Sep 25, 2024
Measurement by	Amnat Wongsakhen
Time	
08:36 AM - 09:36 AM	77.1
09:36 AM - 10:36 AM	77.3
10:36 AM - 11:36 AM	77.3
11:36 AM - 12:36 PM	77.2
12:36 PM - 01:36 PM	77.1
01:36 PM - 02:36 PM	77.1
02:36 PM - 03:36 PM	77.1
03:36 PM - 04:36 PM	78.7
04:36 PM - 05:36 PM	79.3
05:36 PM - 06:36 PM	78.2
06:36 PM - 07:36 PM	78.5
07:36 PM - 08:36 PM	78.3
Leq Average 12 hrs. (dB(A))	77.8
Lmax (dB(A))	98.0
Standard (dB(A))	140
Reference Method	: ISO1996-1 and 1996-2
Standard	: ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการวัดและรายงานค่าเสียง ในการประกอบกิจการโรงงานที่มีผลกระทบต่อสุขภาพของผู้อยู่อาศัยในบริเวณใกล้เคียง



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117363
Date Received : Nov 06, 2024
Date Reported : Nov 12, 2024
Report Number: 3163027-1

Page 1 of 1

Sample Number	24117363-1
Parameter	Noise (Leq 12 hrs.)
Location	พลาสมาฟิล์มไนโตรเจน
Measurement Date	Nov 04, 2024
Measurement by	Ronmchai Moungma
Time	
09:13 AM - 10:13 AM	82.3
10:13 AM - 11:13 AM	82.0
11:13 AM - 12:13 PM	81.9
12:13 PM - 01:13 PM	81.9
01:13 PM - 02:13 PM	82.0
02:13 PM - 03:13 PM	82.3
03:13 PM - 04:13 PM	82.0
04:13 PM - 05:13 PM	82.1
05:13 PM - 06:13 PM	82.1
06:13 PM - 07:13 PM	82.0
07:13 PM - 08:13 PM	82.2
08:13 PM - 09:13 PM	81.8
Leq Average 12 hrs. (dB(A))	82.1
Lmax (dB(A))	93.1
Standard (dB(A))	140
Reference Method	: ISO1996-1 and 1996-2
Standard	: ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการวัดและรายงานค่าเสียง ในการประกอบกิจการโรงงานที่มีผลกระทบต่อสุขภาพของผู้อยู่อาศัยในบริเวณใกล้เคียง





Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117363
Date Received : Nov 06, 2024
Date Reported : Nov 12, 2024
Report Number: 3163027-1

Page 1 of 1

Sample Number	2411(363-2)
Parameter	Noise dLe) 12 hrs.B
Location	Extruder ภายในตัวเครื่อง
Measurement Date	Nov 04, 2024
Measurement by	Ronnachai Moungma

Time	Le) d9qABB	Lmax d9qABB	L80 d9qABB
08:00 AM - 10:00 AM	73.4	80.1	72.8
10:00 AM - 11:00 AM	72.7	71.2	72.2
11:00 AM - 12:00 PM	72.3	76.1	72.0
12:00 PM - 01:00 PM	72.2	73.0	71.8
01:00 PM - 02:00 PM	73.5	75.0	72.1
02:00 PM - 03:00 PM	74.1	75.0	73.6
03:00 PM - 04:00 PM	73.7	74.0	73.3
04:00 PM - 05:00 PM	74.0	74.7	73.6
05:00 PM - 06:00 PM	73.0	78.2	72.4
06:00 PM - 07:00 PM	73.1	74.1	72.5
07:00 PM - 08:00 PM	73.2	74.0	71.7
07:00 PM - 08:00 PM	73.7	75.4	73.3

Le) Average 12 hrs. d9qABB 73.4
Lmax d9qABB 80.1
Standard d9qABB 70
Reference Method : ISO1886-1 and 1886-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง ข้อกำหนดการตรวจวัดมลพิษ
ในการประกอบกิจการโรงงานเกี่ยวกับสารอันตรายในอากาศ พ.ศ.๒๕๔๖



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong Thailand 21150
P/O : PMM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

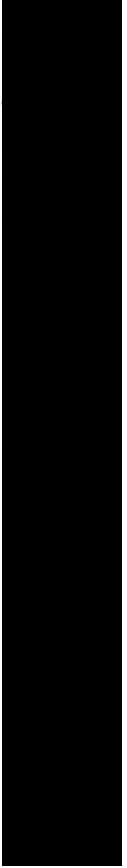
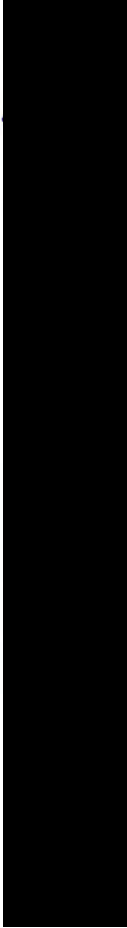
Lot ID: 24117363
Date Received : Nov 06, 2024
Date Reported : Nov 12, 2024
Report Number: 3163029-1

Page 1 of 1

Sample Number	24117363-3
Parameter	Noise (Leq 12 hrs.)
Location	Compressor (ภายใน) Vent Gas use Nitrogen)
Measurement Date	Nov 04, 2024
Measurement by	Ronnachai Moungma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:17 AM - 10:17 AM	76.0	78.6	75.5
10:17 AM - 11:17 AM	76.5	82.5	75.5
11:17 AM - 12:17 PM	77.3	82.0	76.4
12:17 PM - 01:17 PM	76.2	78.2	75.6
01:17 PM - 02:17 PM	76.2	77.4	75.7
02:17 PM - 03:17 PM	76.3	77.2	75.9
03:17 PM - 04:17 PM	76.6	82.1	76.1
04:17 PM - 05:17 PM	76.3	81.1	75.9
05:17 PM - 06:17 PM	76.9	81.0	76.2
06:17 PM - 07:17 PM	76.8	82.3	76.3
07:17 PM - 08:17 PM	76.5	81.3	76.1
08:17 PM - 09:17 PM	76.7	80.8	76.0

Leq Average 12 hrs. (dB(A)) 76.5
Lmax (dB(A)) 82.5
Standard (dB(A)) 87
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง ข้อกำหนดการตรวจวัดมลพิษ
ในการประกอบกิจการโรงงานเกี่ยวกับสารอันตรายในอากาศ พ.ศ.๒๕๔๖





Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-23-11

Project Name : Environmental Monitoring

Project Location : PP1

Lot ID: 2479550

Date Received : Sep 26, 2024

Date Reported : Oct 02, 2024

Report Number : 3127456-1

Page 1 of 1

Sample Number	2479550-1
Parameter	Octave Band, 12 hrs.
Location	ทางหลวงสาย ๓
Measurement Date	Sep 25, 2024
Measurement By	Annat Wongsakhen

Time	Leq	Result (dB(A))										
		16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
08:07 AM - 09:07 AM	81.7	25.1	40.2	51.0	62.6	69.4	75.6	77.3	74.4	71.6	64.1	60.2
09:07 AM - 10:07 AM	81.6	25.3	40.0	51.0	62.7	69.4	75.7	77.3	74.3	71.1	64.1	60.2
10:07 AM - 11:07 AM	81.5	25.4	40.3	51.1	62.6	69.4	75.6	77.1	74.2	71.3	64.0	60.3
11:07 AM - 12:07 PM	81.6	25.1	40.1	50.9	62.4	69.5	75.8	77.3	74.4	71.1	63.9	59.6
12:07 PM - 01:07 PM	82.0	24.9	40.0	51.0	62.6	69.6	76.0	77.7	74.9	71.4	64.1	59.9
01:07 PM - 02:07 PM	81.8	25.0	39.8	50.9	62.7	69.5	75.9	77.7	74.5	71.1	63.9	58.8
02:07 PM - 03:07 PM	81.7	25.1	40.1	51.0	62.7	69.4	75.8	77.5	74.2	71.1	63.8	58.9
03:07 PM - 04:07 PM	83.3	26.2	42.0	53.9	63.9	70.4	76.0	78.3	77.2	75.4	67.6	61.1
04:07 PM - 05:07 PM	82.3	26.5	42.2	51.7	63.1	69.8	75.8	78.1	75.6	72.7	63.6	58.7
05:07 PM - 06:07 PM	81.9	25.3	40.3	51.2	62.9	69.6	76.0	77.7	74.4	71.3	64.0	59.1
06:07 PM - 07:07 PM	81.7	25.4	40.1	51.1	62.8	69.5	75.8	77.4	74.4	71.2	64.2	60.3
07:07 PM - 08:07 PM	81.6	25.5	40.4	51.2	62.7	69.5	75.7	77.2	74.3	71.4	64.1	60.4
Average	81.9	25.4	40.5	51.4	62.8	69.6	75.8	77.6	74.8	71.9	64.4	59.9

Reference Method : ANSI Standard S1.6-1984



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.

10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150

P/O : PHM-23-11

Project Name : Environmental Monitoring

Project Location : PP1

Lot ID: 2479550

Date Received : Sep 26, 2024

Date Reported : Oct 02, 2024

Report Number : 3127457-1

Page 1 of 1

Sample Number	2479550-2
Parameter	Octave Band, 12 hrs.
Location	EWruider แขวงวัดช้างเผือก
Measurement Date	Sep 25, 2024
Measurement By	Annat Hongaszhien

Time	Result (dB(A))											
	Le8	16 ()	31.5 ()	63 ()	125 ()	250 ()	500 ()	1 z ()	2 z ()	4 z ()	wz ()	16 z ()
0w02 AM - 09:02 AM	w8.3	29w	43.0	51.4	65w	72.6	75.7	7w0	77.0	75.1	6w4	54.0
09:02 AM - 10:02 AM	w4.6	31.1	42.7	52.0	69.4	72.3	77.5	79.7	7w7	75.4	67.7	53.2
10:02 AM - 11:02 AM	w4.1	30.9	43.3	52.5	67.2	71.1	76.7	79.5	7w1	75.0	67.5	53.2
11:02 AM - 12:02 PM	w8.1	29.3	43.3	52.0	66.4	69w	75.5	7w0	77.2	74w	67.6	53.2
12:02 PM - 01:02 PM	w8.2	29.1	43.4	51.4	71.0	69.9	75.2	77.3	76.7	74.6	67.6	53.1
01:02 PM - 02:02 PM	w8.9	2w4	43.7	52.0	71.3	70.0	75.4	77.4	76.9	74.7	67w	53.4
02:02 PM - 03:02 PM	w8.0	29.4	45.0	52w	72.5	70.3	75.5	77.3	76.7	74.7	67.6	53.4
03:02 PM - 04:02 PM	w6.2	31.6	45.2	55w	66.6	73.5	7w9	w0.9	w0.4	7w3	71.0	57.9
04:02 PM - 05:02 PM	w4.3	34.9	42.4	53.7	65.7	71.5	77.5	79w	7w0	75.1	6w3	54.0
05:02 PM - 06:02 PM	w8.9	30.7	43.1	52.3	67.0	70.9	76.5	79.3	77.9	74w	67.3	53.0
06:02 PM - 07:02 PM	w4.1	30.9	43.3	52.5	67.2	71.1	76.7	79.5	7w1	75.0	67.5	53.2
07:02 PM - 0w02 PM	w8.4	29w	45.4	53.2	72.9	70.7	75.9	77.7	77.1	75.1	6w0	53w
Average	w8.9	30.9	43w	52w	69.4	71.3	76.6	7w9	77.9	75.3	6w.2	54.0

Reference Method : ANSI Standard S1.6-19w4

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

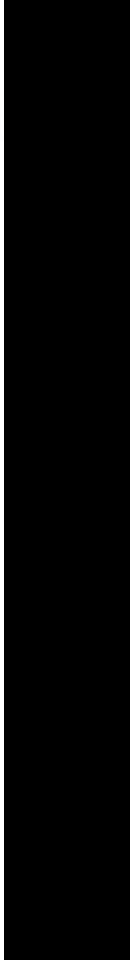
Lot ID: 2479550
Date Received : Sep 26, 2024
Date Reported : Oct 02, 2024
Report Number: 3127458-1

Page 1 of 1

Sample Number	2479550-3
Parameter	Octave Band, 12 hrs.
Location	Compressor (Yamako Vent Gas use Nitrogen)
Measurement Date	Sep 25, 2024
Measurement By	Annat Wongsakhen

Result (dB(A))												
Time												
Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz	
08:36 AM - 09:36 AM	77.1	23.0	36.5	49.6	60.8	57.8	71.4	72.1	71.6	60.7	42.8	
09:36 AM - 10:36 AM	77.3	22.8	36.7	51.0	58.4	61.1	66.2	71.6	72.3	71.7	42.9	
10:36 AM - 11:36 AM	77.3	22.8	36.4	48.6	58.3	61.0	66.2	71.8	72.2	71.6	60.5	42.7
11:36 AM - 12:36 PM	77.2	22.6	36.7	49.0	58.7	61.4	66.4	71.2	72.2	71.8	61.0	43.3
12:36 PM - 01:36 PM	77.1	22.0	36.5	49.5	59.0	61.8	66.2	71.4	72.0	71.6	60.8	42.9
01:36 PM - 02:36 PM	77.1	22.1	36.3	49.3	58.9	61.8	66.2	71.5	72.0	71.4	60.7	42.9
02:36 PM - 03:36 PM	77.1	22.1	36.4	49.2	58.3	61.7	66.2	71.5	72.0	71.3	60.4	42.7
03:36 PM - 04:36 PM	78.7	24.1	39.9	53.5	62.4	66.7	69.2	72.7	72.0	61.1	47.2	
04:36 PM - 05:36 PM	79.3	23.9	37.9	52.1	61.1	64.2	68.6	73.8	75.2	72.1	58.3	42.7
05:36 PM - 06:36 PM	78.2	23.8	37.4	50.5	59.7	61.7	67.9	72.9	73.7	71.2	59.1	41.1
06:36 PM - 07:36 PM	78.5	23.9	39.7	53.3	62.2	66.5	69.0	72.5	73.5	71.8	60.9	47.0
07:36 PM - 08:36 PM	78.3	23.3	37.5	50.5	60.1	63.0	67.4	72.7	73.2	72.6	61.9	44.1
Average	77.8	23.1	37.5	50.8	59.9	63.2	67.3	72.2	73.0	71.7	60.6	43.9

Reference Method : ANSI Standard S1.6-1984



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117364
Date Received : Nov 06, 2024
Date Reported : Nov 12, 2024
Report Number: 3163023-1

Page 1 of 1

Sample Number	24117364-1
Parameter	Octave Band, 12 hrs.
Location	พื้นที่โรงงานไทรบุรี
Measurement Date	Nov 04, 2024
Measurement By	Ronnachai Moungma

Result (dB(A))												
Time												
Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz	
09:13 AM - 10:13 AM	82.3	24.9	41.1	51.5	62.1	68.6	74.8	79.2	75.3	71.7	62.4	47.4
10:13 AM - 11:13 AM	82.0	24.7	41.3	51.7	62.1	68.7	74.7	78.5	75.0	71.3	62.2	47.1
11:13 AM - 12:13 PM	81.9	25.9	42.3	51.6	62.5	68.8	74.7	78.4	75.2	71.2	62.2	47.1
12:13 PM - 01:13 PM	81.9	25.8	42.2	51.7	62.5	68.9	74.6	78.6	71.4	62.2	47.1	
01:13 PM - 02:13 PM	82.0	24.4	41.5	51.5	62.5	68.8	74.5	78.6	75.0	71.7	62.4	47.2
02:13 PM - 03:13 PM	82.3	24.6	41.4	51.9	62.5	68.9	74.7	79.2	75.0	71.9	62.5	47.5
03:13 PM - 04:13 PM	82.0	24.2	41.6	51.8	62.6	68.8	74.5	78.6	74.9	71.5	62.3	47.4
04:13 PM - 05:13 PM	82.1	24.5	41.4	51.7	62.8	69.0	74.6	78.8	75.1	71.6	62.6	48.0
05:13 PM - 06:13 PM	82.1	25.1	41.8	52.1	63.0	68.8	75.2	78.4	74.9	72.3	62.7	48.1
06:13 PM - 07:13 PM	82.0	25.2	42.2	52.1	63.3	68.3	75.4	78.0	75.3	72.0	62.3	48.0
07:13 PM - 08:13 PM	82.2	25.2	41.9	52.2	63.1	68.9	75.3	78.5	75.0	72.4	62.8	48.2
08:13 PM - 09:13 PM	81.8	25.0	42.0	51.9	63.1	68.1	75.2	77.8	75.1	71.8	62.1	47.8
Average	82.1	25.0	41.7	51.8	62.7	68.7	74.9	78.6	75.1	71.7	62.4	47.6

Reference Method : ANSI Standard S1.6-1984



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117364
Date Received : Nov 06, 2024
Date Reported : Nov 12, 2024
Report Number: 3163024-1

Page 1 of 1

Sample Number	24117364-2														
Parameter	Octave Band, 12 hrs.														
Location	Ectruder พลาสติกอัด														
Measurement Date	Nov 04, 2024														
Measurement By	Ronnachai Moungma														

Time	Result HHzAzz														
	Lek	16 89	31.5 89	63 89	125 89	250 89	500 89	1 (89	2 (89	4 (89	) (89	16 (89			
05:07 AM - 10:07 AM	) 3.4	31.5	43.3	53.6	64.1	72.5	77.3	75.2	76.5	70.5	64.2	50.4			
10:07 AM - 11:07 AM	) 2.)	31.2	43.1	53.6	63.5	72.2	76.2	71.7	76.2	70.3	63.7	45.6			
11:07 AM - 12:07 PM	) 2.3	32.1	44.3	54.1	62.5	71.5	75.5	71.3	75.)	65.5	63.4	45.4			
12:07 PM - 01:07 PM	) 2.2	33.2	44.3	53.)	63.0	71.5	75.6	71.1	75.5	65.7	63.0	45.2			
01:07 PM - 02:07 PM	) 3.5	33.4	43.0	53.1	62.5	72.5	77.2	75.7	76.4	70.5	64.5	50.4			
02:07 PM - 03:07 PM	) 4.1	32.6	43.0	53.5	63.0	72.4	77.5	70.3	77.0	71.6	66.0	51.4			
03:07 PM - 04:07 PM	) 3.)	32.0	42.)	53.5	63.0	71.3	77.5	70.2	76.)	71.6	66.0	51.5			
04:07 PM - 05:07 PM	) 4.0	32.2	42.7	53.5	63.1	71.7	77.2	70.1	76.5	71.6	66.0	51.)			
05:07 PM - 06:07 PM	) 3.7	32.6	43.5	54.5	63.6	73.3	77.7	75.)	76.6	70.)	65.0	51.6			
06:07 PM - 07:07 PM	) 3.1	34.0	44.1	55.7	64.1	72.2	77.0	71.5	76.6	70.1	64.2	51.4			
07:07 PM - 08:07 PM	) 3.2	33.1	42.7	52.)	62.6	72.6	76.5	75.4	76.1	70.6	64.6	50.1			
08:07 PM - 09:07 PM	) 3.)	32.3	42.7	53.2	62.7	72.1	77.6	70.0	76.7	71.3	65.7	51.1			
Average) 3.4	32.6	43.3	53.5	63.2	72.3	77.1	75.5	76.4	70.)	64.)	50.7			

Reference Method : ANSI standard M1.6-1S)4

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PHM-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117364
Date Received : Nov 06, 2024
Date Reported : Nov 12, 2024
Report Number: 3163025-1

Page 1 of 1

Sample Number	24117364-3														
Parameter	Octave Band, 12 hrs.														
Location	Compressor (Vibruka Vent Gas use Nitrogen)														
Measurement Date	Nov 04, 2024														
Measurement By	Ronnachai Moungma														

Time	Result (dB(A))														
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz			
09:17 AM - 10:17 AM	76.0	21.9	35.5	47.1	57.0	59.2	65.5	70.9	71.7	68.4	57.8	36.7			
10:17 AM - 11:17 AM	76.5	25.3	40.2	49.7	60.1	60.8	66.0	71.0	72.1	69.4	61.8	45.7			
11:17 AM - 12:17 PM	77.3	28.0	43.3	50.9	61.7	62.1	66.7	71.4	72.4	70.5	64.8	49.6			
12:17 PM - 01:17 PM	76.2	25.1	39.7	48.6	59.2	60.1	66.0	70.9	71.7	68.9	61.0	44.2			
01:17 PM - 02:17 PM	76.2	21.6	36.0	47.5	58.8	59.8	65.7	70.9	71.8	68.7	59.4	39.6			
02:17 PM - 03:17 PM	76.3	21.8	36.3	47.9	59.4	60.0	65.8	70.9	71.9	69.0	59.5	38.5			
03:17 PM - 04:17 PM	76.6	21.8	36.4	48.1	59.6	60.5	66.0	71.2	72.3	69.4	60.0	39.0			
04:17 PM - 05:17 PM	76.3	21.8	36.1	47.5	58.8	60.0	65.9	70.6	72.1	69.1	59.6	38.8			
05:17 PM - 06:17 PM	76.9	22.6	37.0	48.1	58.9	61.8	66.4	71.2	72.7	70.0	59.1	38.7			
06:17 PM - 07:17 PM	76.8	22.0	36.6	48.3	59.8	60.7	66.2	71.4	72.5	69.6	60.2	39.2			
07:17 PM - 08:17 PM	76.5	22.0	36.3	47.7	59.0	60.2	66.1	70.8	72.3	69.3	59.8	39.0			
08:17 PM - 09:17 PM	76.7	22.4	36.8	47.9	58.7	61.6	66.2	71.0	72.5	69.8	58.9	38.5			
Average	76.5	23.6	38.2	48.4	59.4	60.7	66.1	71.0	72.2	69.4	60.6	42.7			

Reference Method : ANSI Standard S1.6-1984

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479557
Date Received : Sep 26, 2024
Date Reported : Oct 02, 2024
Report Number : 3052407-1

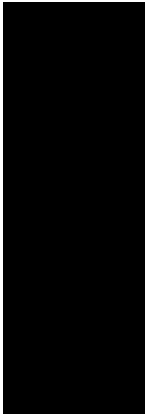
Page 1 of 1

Sample Number	2479557-1								
Sample Date	Sep 25, 2024								
Sample Description	Noise Dose (12 hrs.)								
Location	พนักงานจัดรถ CCR								
Personal Sampling	สุ่มเฉพาะจุด								
Date Analysis Commenced	Oct 01, 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)	%	-	1	3.9	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
	Noise Dose (8 hrs.)	%	-	1	3.2	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
	TWA (12 hrs.) (Calculated from Lavg)	dB(A)	-	-	68.9	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
	TWA (8 hrs.)	dB(A)	-	-	70.0	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 : Annat Wongsakhen
Remark :
- LOD : Limit of Detection
- "L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District, Rayong
Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117365
Date Received : Sov 06, 2024
Date Reported : Sov 12, 2024
Report Sum7er : 3135030-1

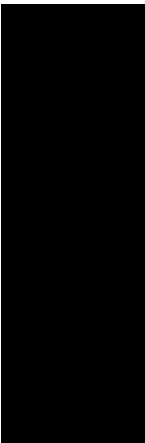
Page 1 of 1

Sample Number		2411B365-1							
Sampled Date		Sov 04, 2024							
Sample Description		Soise Dose f12 hrs.9							
Location		พนักงานจัดรถ CCR							
Personal Sampling		คนจัดรถ รถบรรทุก							
Date Analysis Commenced		Sov 00, 2024							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing	Soise Dose f12 hrs.9 (Calculated Norm Lavg)	0b:30 AM - 0b:30 PM	B	- 1	b. %	So Standard	M (L, Department La7our Protection and) ellwire FWE.25619	M (L	Rayong
	Soise Dose f0 hrs.9	0b:30 AM - 0b:30 PM	B	- 1	b.6	So Standard	M (L, Department La7our Protection and) ellwire FWE.25619	M (L	Rayong
	T) A f12 hrs.9 (Calculated Norm Lavg)	0b:30 AM - 0b:30 PM	dWA9	- -	b2.0	CS*	M (L, Department La7our Protection and) ellwire FWE.25619	M (L	Rayong
	T) A f0 hrs.9	0b:30 AM - 0b:30 PM	dWA9	- -	b3.0	CS	M (L, Department La7our Protection and) ellwire FWE.25619	M (L	Rayong

Guideline :
M (L : 1. Notification of Department La7our Protection and) ellwire on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Soise Levels, including Duration and Types of Business that must perform FWE. 25619
2. Notification of Department of La7our Protection and) ellwire on the Standard of Time Weighted Average (T) A9 Soise Level FWE. 25619
* M (L: Recommended guideline limit for 12 working hours should not 7e over CB dWA9

Sampled By : Annat Wongsakhen
Remark :
- L (D : Limit of Detection
- "L" : Lower than L (Q Limit of Quantitation) / L (R Limit of Reporting)

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ภาคผนวก ค-6

ระดับความร้อนในสถานประกอบการ



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong, Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 2479559
Date Received : Sep 03, 2024
Date Reported : Sep 07, 2024
Report Number: 3052409-1

Page 1 of 1

Sample Number	2479559-1				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Sep 02, 2024				
Measurement by	Norranon Tathongkham				
Location	ปทุมธานี 1 พื้นที่ (ผ้า-ทอ) : - แทน : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Extruder (หน่วยวัด)	120	28.5	26.9	32.2	32.2
Average (WBGT)	28.5				
Guideline WBGT (°C)	34.0				

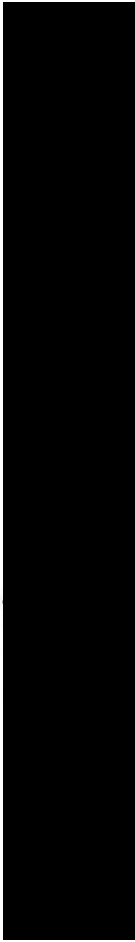
Reference Method : Wet Bulb Globe Temperature

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

Note:

%Humidity = 59.8 % Heat Index= 37.0 C



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong, Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24110742
Date Received : Sep 26, 2024
Date Reported : Oct 02, 2024
Report Number: 3120356-1

Page 1 of 1

Sample Number	24110742-1				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Sep 25, 2024				
Measurement by	Amnat Wongsakhen				
Location	ปทุมธานี 1 พื้นที่ (ผ้า-ทอ) : - แทน : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Polymerization Unit	120	28.1	26.5	31.8	31.7
Average (WBGT)	28.1				
Guideline WBGT (°C)	34.0				

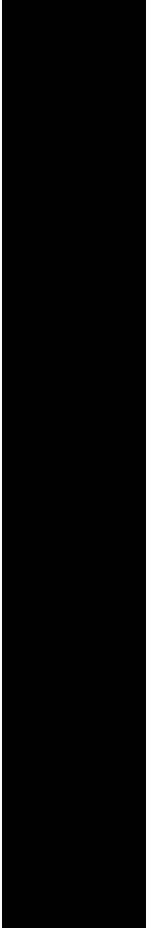
Reference Method : Wet Bulb Globe Temperature

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

Note:

%Humidity = 65.0 % Heat Index= 37.0 C



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Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong, Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117366
Date Received : Sov 06, 2024
Date Reported : Sov 12, 2024
Report SumNer: 3135040-1

Page 1 of 2

Sample Number	2411f 366-1				
Parameter	7 eat Hress (Hampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Sov 04, 2024				
Measurement by	Amnat Wongsakhen				
Location	ปทุมธานี 1 พื้นที่ (ผิวน้ำ-อากาศ) อุณหภูมิอากาศ : - แดด : -)				

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ESruder (บนน้ำตื้น)	120	22.6	2f.6	34.3	34.0
Average (WUBT)		22.6			
Buidline WUBT (℃)		34.0			

Reference Method : Wet Ulin BioloN Temperature

Guideline:

1. Sotification obDepartment Lanour Protection and Wellare on the Criteria and Procedures br Measurement and Analysis obWorking Conditions in relation to 7 eat, Light or Soise Levels, including Duration and Types obBusiness that must perfrm (U.E. 2561)
2. Ministerial Regulation obPrescribing obHandard br Administration and Management ob occupational Hafety, 7 ealth and Environmentin relation to 7 eat,Light and Soise, U.E.2552

Note:

9 7 umidity %62.0 9 , 7 eat Inde8%43.0 C



Analysis / Test Report

Client : Thai Polyethylene Co., Ltd.
10, Map Ta Phut Industrial Estate I-1 Road, Map Ta Phut, Muang District,
Rayong, Thailand 21150
P/O : PMW-23-11
Project Name : Environmental Monitoring
Project Location : PP1

Lot ID: 24117366
Date Received : Sov 06, 2024
Date Reported : Sov 12, 2024
Report SumNer: 3135040-1

Page 2 of 2

Sample Number	2411f 366-2				
Parameter	7 eat Hress (Hampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Sov 04, 2024				
Measurement by	Amnat Wongsakhen				
Location	ปทุมธานี 1 พื้นที่ (ผิวน้ำ-อากาศ) อุณหภูมิอากาศ : - แดด : -)				

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Polymeri-ation xnit	120	30.2	2Qf	33.0	33.6
Average (WUBT)		30.2			
Buidline WUBT (℃)		34.0			

Reference Method : Wet Ulin BioloN Temperature

Guideline:

1. Sotification obDepartment Lanour Protection and Wellare on the Criteria and Procedures br Measurement and Analysis obWorking Conditions in relation to 7 eat, Light or Soise Levels, including Duration and Types obBusiness that must perfrm (U.E. 2561)
2. Ministerial Regulation obPrescribing obHandard br Administration and Management ob occupational Hafety, 7 ealth and Environmentin relation to 7 eat,Light and Soise, U.E.2552

Note:

9 7 umidity %62.0 9 , 7 eat Inde8%42.0 C

