

ภาคผนวก ก-7

ผลการตรวจวิเคราะห์น้ำเสียรายโรงงาน

ผลการตรวจวิเคราะห์ประจำเดือนกรกฎาคม



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No.0042
Lot ID: 2471913
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035254-1

Page 1 of 2

Sample Number 2471913-1
Sampled Date Jul 01, 2024 10:18 AM
Sample Description Wastewater
Contract ID L_ESIE_202_2550 Plot E-10 Site Yoroou (Thailand) Co., Ltd
Location Office
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	1	2.0	10.2	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 - O G	Rayong
COD	mg/L	1.5	25	54	≤750	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	29	≤600	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	27	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (8)	Rayong
Temperature *	Degree C	-	-	30.6	≤45	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	160	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
มือถือ 09-1323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มือถือ 09-1323-9442

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report shall be reproduced in any form without written consent from the laboratory.

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong, Thailand 21140. Air ALS Limited Company

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Analysis / Test Report

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Thailand 21140
P/O :
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TESTING

No.0042
Lot ID: 2471913
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035254-1

Page 2 of 2

Sample Number 2471913-1
Sampled Date Jul 01, 2024 10:18 AM
Sample Description Wastewater
Contract ID L_ESIE_202_2550 Plot E-10 Site Yoroou (Thailand) Co., Ltd
Location Office
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatrui มิวเฮาส์ 3-323-9-0019

Remarks :

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

Chontichak
Chonticha Subongkroh
Scientist (3)
มือถือ 09-1323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มือถือ 09-1323-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471913
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035254-2

Page 1 of 1

Sample Number 2471913-1
Sampled Date Jul 01, 2024 10:18 AM
Sample Description Wastewater
Contract ID L_ESIE_202_2550 Plot E-10 Site Yoroou (Thailand) Co., Ltd
Location Office
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Fluoride as F	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatrui

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

Approved by

Chontichak
Chonticha Subongkroh
Scientist (3)

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING

No.0042
Lot ID: 2471914
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035268-1

Page 1 of 2

Sample Number 2471914-1
Sampled Date Jul 01, 2024 10:38 AM
Sample Description Wastewater
Contract ID L_ESIE_004_2561 Plot F21/1 Site Maxwell Foods (Asia) Co., Ltd
Location Office
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	28.2	≤500	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	109	≤750	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	75	≤600	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	72	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (8)	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
มือถือ 09-1323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มือถือ 09-1323-9442

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471915
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035273-1

Page 1 of 2

Sample Number	2471915-1						
Sampled Date	Jul 01, 2024 1:44 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_048_2550	Plot	5-36	Site	Gates Unitra (Thailand) Co. Ltd.		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	43.9	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 G C	Rayong
COD	mg/L	1.5	25	179	≤750	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	63	≤600	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	62	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, F)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wardlaw's analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	5	8	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongchok
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

Dej Changchom
Dej Changchom
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471915
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035273-1

Page 2 of 2

Sample Number	2471915-1						
Sampled Date	Jul 01, 2024 1:44 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_048_2550	Plot	5-36	Site	Gates Unitra (Thailand) Co. Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	35.4	≤45	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	-	3	216	≤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	22	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : Wasan Kinnud, โทรศัพท์ 3-323-9-0019, Karabundit Kitsuapavatt, โทรศัพท์ 3-323-9-0001							
Remark :							
LOD : Limit of Detection							
*C : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)							
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025							
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Technical Management

Chontichak
Chonticha Subongchok
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

Dej Changchom
Dej Changchom
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471915
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035273-2

Page 1 of 2

Sample Number	2471915-1						
Sampled Date	Jul 01, 2024 1:44 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_048_2550	Plot	5-36	Site	Gates Unitra (Thailand) Co. Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0002	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.12	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500 C-B	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongam
Manager
โทรศัพท์ 3-324-9-0007

Approved by

Karokom Anit
Karokom Anit
Assistant General Manager
โทรศัพท์ 3-324-9-0004

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471915
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035273-2

Page 2 of 2

Sample Number	2471915-1						
Sampled Date	Jul 01, 2024 1:44 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_048_2550	Plot	5-36	Site	Gates Unitra (Thailand) Co.,Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.50	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kinnud,โทรศัพท์ 3-323-9-0019, Karabundit Kitsuapavatt,โทรศัพท์ 3-323-9-0001

Remark :

LOD : Limit of Detection

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

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

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

Technical Management

Savitree N.
Savitree Nongam
Manager
โทรศัพท์ 3-324-9-0007

Approved by

Karokom Anit
Karokom Anit
Assistant General Manager
โทรศัพท์ 3-324-9-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2471915
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035273-3

Sample Number	2471915-1						Page 1 of 1
Sampled Date	Jul 01, 2024 1:44 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_048_2550	Plot	S-36	Site	Gates Unitia (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA). Yellow, a lot of odour, solid and some turbid.						
Physical Property							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.60	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Rayong
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Knuat, Kirdbundit Kitsupavan

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

Approved by

Sauwath N.
Santree Hosingam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 2471916
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035281-1

Sample Number	2471916-1							Page 1 of 1
Sampled Date	Jul 01, 2024 1:54 PM							
Sample Description	Wastewater							
Contract ID	L-ESIE_010_2550	Plot	S-37C	Site	FTS AUTOMOTIVE (THAILAND) CO., LTD			
Location	Dump pit							
Date Analysis Commenced	Jul 01, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA). Yellow, some odour, solid and turbid.							
Physical Property								
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong	
COD	mg/L	2.5	25	<25	≤750	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	6	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	ADMI	-	5	<5	≤600	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	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	7.6	5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong	
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	
Total Dissolved Solids Dried at 180 degree C	mg/L	-	1	132	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong	

Technical Management

Chontichak
Chonticha Subongch
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-9-9442

ADDRESS: 55 61/70 Moo 5 T. Maenam Khu A, Pluakdaeng Rayong 21140 Thailand. PHONE: +66 6 3304 8555 FAX: +66 6 3304 8555

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 2471916
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035281-1

Page 2 of 2							
Sample Number	2471916-1						
Sampled Date	Jul 01, 2024 1:54 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_010_2550	Plot	S-37C	Site	FTS AUTOMOTIVE (THAILAND) CO., LTD		
Location	Sump pit						
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA).						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103 105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Knuat, Kirdbundit Kitsupavan

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

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-9-9442

Technical Management

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2471916
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035281-2

							Page 1 of 1
Sample Number	2471916-1						
Sampled Date	Jul 01, 2024 1:54 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2550		Plot	S-37C	Site	FTS AUTOMOTIVE (THAILAND) CO.,LTD	
Location	Sump pt						
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA).						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Knuat

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

Approved by

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Analysis / Test Report

TESTING
No 0042Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471917
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035282-1

Sample Number	2471917-1										Page 1 of 4
Sampled Date	Jul 03, 2024 9:20 AM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_018_2550		Plot	5-39		Site	Bangkok Eastern Coil Center Co., Ltd				
Date Analysis Commenced	Jul 03, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	59.2	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong				
COD	mg/L	1.5	25	182	≤750	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	149	≤600	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	146	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CH (C, E)	Rayong				
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong				
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong				
pH (on site) *				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				

Technical Management

Chontichak

Chonticha Subongch
Scientist (3)
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Approved by

Dej Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-9-9442

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.

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Analysis / Test Report

TESTING
No 0009Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471917
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035282-2

Page 1 of 2

Sample Number	2471917-1									
Sampled Date	Jul 03, 2024 9:20 AM									
Sample Description	Wastewater									
Contract ID	L_ESTIE_018_2550		Plot	5-39		Site	Bangkok Eastern Coil Center Co., Ltd			
Date Analysis Commenced	Jul 04, 2024									
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)									
Physical Property	Yellow, a lot of odour, some solid and turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-G B	Bangkok			
Lead	mg/L	0.0003	0.0005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			

Technical Management

Savitree N.

Savitree Nisangam
Manager
โทรศัพท์ 3-204-9-0007

Approved by

Kanitkorn Anek

Kanitkorn Anek
Assistant General Manager
โทรศัพท์ 3-204-9-0004

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.

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Analysis / Test Report

TESTING
No 0042Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471917
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035282-1

Sample Number	2471917-1									
Sampled Date	Jul 03, 2024 9 20 AM									
Sample Description	Wastewater									
Contract ID	L_ESTIE_018_2550		Plot	5-39		Site	Bangkok Eastern Coil Center Co.,Ltd			
Date Analysis Commenced	Jul 03, 2024									
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)									
Physical Property	Yellow, a lot of odour, some solid and turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Water Testing										
Phenol	mg/L	0.005	0.01	0.18	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong			
Temperature	Degree C	-	-	28.8	≤45	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	-	-	350	≤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	-	-	39	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong			
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.										
Sampling By : Wasan Kinnul วิศวกร 3-323-9-0019 , Kanbunthi Kinnapavant วิศวกร 3-204-9-0001										
Remark : LOD : Limit of Detection " < " : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting) Analytes 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

Chontichak

Chonticha Subongch
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

Dej Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING
No 0009Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471917
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035282-2

Page 2 of 2

Sample Number	2471917-1									
Sampled Date	Jul 03, 2024 9:20 AM									
Sample Description	Wastewater									
Contract ID	L_ESTIE_018_2550		Plot	5-39		Site	Bangkok Eastern Coil Center Co. Ltd			
Date Analysis Commenced	Jul 04, 2024									
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)									
Physical Property	Yellow, a lot of odour, some solid and turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok			
Nickel	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Zinc	mg/L	0.003	0.005	0.22	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kinnul วิศวกร 3-323-9-0019 , Kanbunthi Kinnapavant วิศวกร 3-204-9-0001

Remark :

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

Savitree N.

Savitree Nisangam
Manager
โทรศัพท์ 3-204-9-0007

Approved by

Kanitkorn Anek

Kanitkorn Anek
Assistant General Manager
โทรศัพท์ 3-204-9-0004

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.

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Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2471917
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035282-3

Sample Number	2471917-1						
Sampled Date	Jul 03, 2024 9:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_018_2550		Plot	S-39	Site	Bangkok Eastern Col Center Co.,Ltd	
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.41	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kiatruti, Kiatruti Kiatpavanit

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

Approved by

Savitree N.
Savitree Nongsangam
Manager



Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2471918-1						
Sampled Date	Jul 03, 2024 11:10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_155_2550		Plot	P-21	Site	Summit Laemchabang Auto body work Co.,Ltd.	
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location

Technical Management

Chontichak
Chonticha Subongkhi
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

Dej Changanon
Senior Manager
โทรศัพท์ 3-323-9-9442



Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2471918
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035284-4

Sample Number	2471918-1							Page 1 of 2
Sampled Date	Jul 03, 2024 11 :10 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_155_2550		Plot	P-21	Site	Summit Laemchabang Auto body work Co., Ltd.		
Date Analysis Commenced	Jul 03, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.07	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	30.7	≤45	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	404	≤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	27	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kiatruti, Kiatruti Kiatpavanit

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

Approved by

Dej Changanon
Senior Manager
โทรศัพท์ 3-323-9-9442

Technical Management

Chontichak
Chonticha Subongkhi
Scientist (3)
โทรศัพท์ 3-323-9-9449



Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2471918-1			Page 1 of 2	
Sampled Date	Jul 03, 2024 11:10 AM				
Sample Description	Wastewater				
Contract ID	L_ESIE_155_2550	Plot	P-21	Site	Summit Laemchabang Auto body work Co.,Ltd
Date Analysis Commenced	Jul 04, 2024				
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)				
Physical Property	Yellow, a lot of odour, some solid and turbid				

Technical Management

Savitree N.
Savitree Nongsangam
Manager
โทรศัพท์ 3-323-9-9449

Approved by

Kanitkorn Anuk
Assistant General Manager
โทรศัพท์ 3-254-0-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0009
Lot ID: 2471918
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035284-2

Page 1 of 2

Sample Number	2471918-1						
Sampled Date	Jul 03, 2024 11:10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_155_2550	Plot	P-21	Site	Summit Laemchabang Auto body work Co., Ltd.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.0003	0.0005	0.22	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chumphae มัณเฑียรสิน 323-4-0020, Samart Khumphae มัณเฑียรสิน 323-4-0084

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

Savitree N.

Savitree Nongsang
Manager
โทรศัพท์ 323-4-0007

Approved by

Kanokorn Anok

Kanokorn Anok
Assistant General Manager
โทรศัพท์ 323-4-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0009
Lot ID: 2471918
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035284-3

Page 1 of 2

Sample Number	2471918-1						
Sampled Date	Jul 03, 2024 11:10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_155_2550	Plot	P-21	Site	Summit Laemchabang Auto body work Co.,Ltd.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.54	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By : Warunyo Chemphelee , Sanut Khunphiphe							
Remark : LOD : Limit of Detection "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting) Analytes marked * were not included in scope of International ISO/IEC 17025 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chumphae มัณเฑียรสิน 323-4-0020, Samart Khumphae มัณเฑียรสิน 323-4-0084

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

Savitree N.

Savitree Nongsang
Manager
โทรศัพท์ 323-4-0007

Approved by

Kanokorn Anok

Kanokorn Anok
Assistant General Manager
โทรศัพท์ 323-4-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0042
Lot ID: 2471919
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035286-1

Page 1 of 2

Sample Number	2471919-1						
Sampled Date	Jul 03, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_012_2556	Plot	P-25	Site	Summit Laemchabang Auto body work Co., Ltd		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		7.3	15.5	≤500	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	75	46	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMU		5	36	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMU		5	33	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2559	Rayong
Oil & Grease	mg/L		3	<3	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				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

Technical Management

Chontichak

Chonticha Subongchok
Scientist (3)
โทรศัพท์ 323-4-9449

Approved by

Dej Changnon

Dej Changnon
Senior Manager
โทรศัพท์ 323-4-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0042
Lot ID: 2471919
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035286-1

Page 1 of 2

Sample Number	2471919-1						
Sampled Date	Jul 03, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_012_2556	Plot	P-25	Site	Summit Laemchabang Auto body work Co.,Ltd.		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	(Yellow, a lot of odour, some solid and turbid)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C			31.2	≤45	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L		5	156	≤3000	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L		5	28	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates							
Sampling By : Warunyo Chomphree มูวณโย ชอมพรี 323-2-0020 , Samart Khomphlee มูสมาร์ท 254-4-0904							
Remark :							
LOD : Limit of Detection							
* < " Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)							
Analytes 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							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chumphae มัณเฑียรสิน 323-4-0020, Samart Khumphae มัณเฑียรสิน 323-4-0084

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

Chontichak

Chonticha Subongchok
Scientist (3)
โทรศัพท์ 323-4-9449

Approved by

Dej Changnon

Dej Changnon
Senior Manager
โทรศัพท์ 323-4-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2471919
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035286-2

Sample Number 2471919.1
Sampled Date Jul 03, 2024 11:20 AM
Sample Description Wastewater
Contract ID L_ESIE_012_2556 Plot P-25 Site Summit Laemchabang Auto body work Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.23	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongniam
Manager
มือถือ 09-204 4 0007

Approved by

Kanokorn Anok
Assistant General Manager
มือถือ 09-204 4 0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2471919
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035286-3

Sample Number 2471919.1
Sampled Date Jul 03, 2024 11:20 AM
Sample Description Wastewater
Contract ID L_ESIE_012_2556 Plot P-25 Site Summit Laemchabang Auto body work Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.47	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.00	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunoy Chimphee : Samrit Khumphee

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

Approved by

Savitree N.
Savitree Nongniam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2471919
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035286-2

Sample Number 2471919.1
Sampled Date Jul 03, 2024 11:20 AM
Sample Description Wastewater
Contract ID L_ESIE_012_2556 Plot P-25 Site Summit Laemchabang Auto body work Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	<0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunoy Chimphee : Samrit Khumphee

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

Savitree N.
Savitree Nongniam
Manager
มือถือ 09-204 4 0007

Approved by

Kanokorn Anok
Assistant General Manager
มือถือ 09-204 4 0004

Result refers to the sample 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.
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2471920
Date Received : Jul 01, 2024
Date Reported : Jul 06, 2024
Report Number : 3035291-1

Sample Number 2471920.1
Sampled Date Jul 01, 2024 3:37 PM
Sample Description Wastewater
Contract ID L_ESIE_102_2550 Plot P-26,27 Site NIPPON STEEL Steel Processing (Thailand) Co., Ltd.
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	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	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at 0.5m, pH)	ADCU	-	-	-	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADCU	-	-	<5	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CH (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong
Oil & Grease	mg/L	-	-	<1	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D	Rayong
pH (on site) *	-	-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 H (B)	Rayong

Technical Management

Chontichak
Chontichak Sungsach
Scientist (I)
มือถือ 09-323 4 5949

Approved by

Dj Chongkon
Dj Chongkon
Senior Manager
มือถือ 09-323 4 9942

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Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471920
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035291-1

Page 1 of 2

Sample Number	2471920-1						
Sampled Date	Jul 01, 2024 3:37 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_102_2550	Plot	P-26,27	Site	NIPPON STEEL Steel Processing (Thailand) Co.,Ltd.		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	33.0	≤45	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	1836	≤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	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinumai รหัสประจำตัว 3-323-4-0019 , Karabundit Kitsuapavatt รหัสประจำตัว 3-204-4-0001

Remark :
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- Analyte(s) marked * : data 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

Chontichak
Chontichak Sorngrach
Scientist (S)
รหัสประจำตัว 3-323-4-0443

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
รหัสประจำตัว 3-323-4-0442

Life Sciences
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Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471920
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035291-2

Page 1 of 2

Sample Number	2471920-1						
Sampled Date	Jul 01, 2024 3:37 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_102_2550	Plot	P-26,27	Site	NIPPON STEEL Steel Processing (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.0010	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C-8	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0003	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsam
Manager
รหัสประจำตัว 3-204-4-0007

Approved by

Karabundit Kitsuapavatt
Karabundit Kitsuapavatt
Assistant General Manager
รหัสประจำตัว 3-204-4-0001

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Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471920
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035291-2

Page 1 of 1

Sample Number	2471920-1						
Sampled Date	Jul 01, 2024 3:37 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_102_2550	Plot	P-26,27	Site	NIPPON STEEL Steel Processing (Thailand) Co.,Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinumai รหัสประจำตัว 3-323-4-0019 , Karabundit Kitsuapavatt รหัสประจำตัว 3-204-4-0001

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

Technical Management

Savitree N.
Savitree Nongsam
Manager
รหัสประจำตัว 3-204-4-0007

Approved by

Karabundit Kitsuapavatt
Karabundit Kitsuapavatt
Assistant General Manager
รหัสประจำตัว 3-204-4-0001

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Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471920
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035291-3

Page 1 of 1

Sample Number	2471920-1						
Sampled Date	Jul 01, 2024 3:37 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_102_2550	Plot	P-26,27	Site	NIPPON STEEL Steel Processing (Thailand) Co., Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.36	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinumai รหัสประจำตัว 3-323-4-0019 , Karabundit Kitsuapavatt รหัสประจำตัว 3-204-4-0001

Remark :
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- "C" : Lower than LOQ (Limit of Quantization) / LOR (Limit of Reporting)
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Technical Management

Savitree N.
Savitree Nongsam
Manager
รหัสประจำตัว 3-204-4-0007

Approved by

Karabundit Kitsuapavatt
Karabundit Kitsuapavatt
Assistant General Manager
รหัสประจำตัว 3-204-4-0001

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471921
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035293-1

Sample Number	2471921-1						
Sampled Date	Jul 03, 2024 9:30 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_123_2550	Plot	P-28	Site	Precision Valve (Thailand) Ltd.		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	76.0	≤500	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	197	≤750	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	102	≤600	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	98	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CH (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5500 B	Rayong
pH (on site) *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 -H (6)	Rayong

Technical Management

Chontichak

Choncha Subongkroh
Scientist (3)
โทรศัพท์ 0-323-9-9449

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-9-9442

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471921
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035293-2

Sample Number	2471921-1						
Sampled Date	Jul 03, 2024 9:30 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_123_2550	Plot	P-28	Site	Precision Valve (Thailand) Ltd		
Date Analyse Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.08	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500 C-2	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nongnang
Manager
โทรศัพท์ 0-204-0-0007

Approved by

Kankom Anok

Kankom Anok
Assistant General Manager
โทรศัพท์ 0-204-0-0004

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471921
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035293-1

Sample Number	2471921-1						
Sampled Date	Jul 03, 2024 9:30 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_123_2550	Plot	P-28	Site	Precision Valve (Thailand) Ltd.		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.13	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.4	≤45	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	220	≤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	31	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No D29/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates.							
Sampling By : Wanunoy Chumphae โทรศัพท์ 0-323-9-0020 , Samart Khumphee โทรศัพท์ 0-204-0-0084							
Remarks :							
- LOD : Limit of Detection							
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)							
- Analysis 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

Chontichak

Choncha Subongkroh
Scientist (3)
โทรศัพท์ 0-323-9-9449

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-9-9442

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471921
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035293-2

Page 2 of 2

Sample Number	2471921-1						
Sampled Date	Jul 03, 2024 9:30 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_123_2550	Plot	P-28	Site	Precision Valve (Thailand) Ltd.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No D29/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunoy Chumphae โทรศัพท์ 0-323-9-0020 , Samart Khumphee โทรศัพท์ 0-204-0-0084

Remarks :

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Technical Management

Savitree N.

Savitree Nongnang
Manager
โทรศัพท์ 0-204-0-0007

Approved by

Kankom Anok

Kankom Anok
Assistant General Manager
โทรศัพท์ 0-204-0-0004

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TESTING
No 0009

Lot ID: 2471921
Date Received: Jul 03, 2024
Date Reported: Jul 10, 2024
Report Number: 3035293-3

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Remark

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LOD : Limit of Detection
 c : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by Savitree N.
Savitree Nosangiam
Manager

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TESTING
No 0042

Lot ID: 2471922
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035295-1

Page 2 of 2

Sampling by : Warunyoed Champhalee สหกรณ์การเกษตร 1-323-4-0020 , Samart Kumphelee สหกรณ์การเกษตร 2 204-4-0084

Remark
LOD : Limit of Detection
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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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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

Approved by 
Dej Changchon
Senior Manager
โทรศัพท์ ๓๒๓-๙๙๔๒

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TESTING
No. 0042

Lot ID: 2471922
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 1675295-1

Page 1 of 2

Approved by 
Del Changchon
Senior Manager
โทรศัพท์ ๖-๖๖๖ ๖-๖๖๖ ๖-๖๖๖

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TESTING
No. 0009

Lot ID: 2471922
Date Received: Jul 03, 2024
Date Reported: Jul 10, 2024
Report Number: 3035295-2

Page 1 of 2

Approved by 
 Kanokkorn Anek
 Assistant General Manager
 โทรสาร ๖-๒๐๔-๖-๐๐๐๔

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2471922
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035295-2

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471922-1						
Sampled Date	Jul 03, 2024 9:52 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2553	Plot	P 30	Site	K.W. Metal work Limited		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chumphalee รหัสประจำตัว 3-323-4-0020, Samart Khumphee รหัสประจำตัว 3-204-4-0084

Remarks :

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Technical Management

Savitree N.
Savitree Nongsangam
Manager
โทรศัพท์ 3-204-4-0007

Approved by

Karolaim Anik
Karolaim Anik
Assistant General Manager
โทรศัพท์ 3-204-4-0004

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2471922
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035295-1

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471922-1						
Sampled Date	Jul 03, 2024 9:52 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2553	Plot	P 30	Site	K.W. Metal work Limited		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.64	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment system in Industrial Estates.

Sampling By : Wannaporn Chumchaisri , Samart Khunpromlee

Remarks

LOD : Limit of Detection
*F : Lower than LOD (Limit of Quantitation) / LOQ (Lower of Reporting)
Analyses marked * were not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chumphalee รหัสประจำตัว 3-323-4-0020, Samart Khumphee รหัสประจำตัว 3-204-4-0084

Remarks :

- LOD : Limit of Detection
- <L : 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

Approved by

Savitree N.
Savitree Nongsangam
Manager

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Analysis / Test Report

TESTING
No.0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2471923
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035296-1

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471923-1						
Sampled Date	Jul 03, 2024 9:42 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_012_2558	Plot	P 37	Site	K.W. Metal work Limited		
Location	Factory 2						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	15.9	≤500	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	1.3	25	41	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
Color (at Original pH)	PCU	-	5	37	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	34	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manually (Consommation Engineering Association of Thailand, 4th ed, 2004)	Rayong
Oil & Grease	mg/L	-	3	43	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (at 20°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

Technical Management

Chontichak
Chonticha Suangsooch
Senior Manager (3)
โทรศัพท์ 3-323-4-9449

Approved by

Dej Chanchong
Dej Chanchong
Senior Manager
โทรศัพท์ 3-323-4-9449

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2471923
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035296-1

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471923-1						
Sampled Date	Jul 03, 2024 9:42 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_012_2558	Plot	P 37	Site	K.W. Metal work Limited		
Location	Factory 2						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.1	≤45	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	172	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chumphalee รหัสประจำตัว 3-323-4-0020, Samart Khumphee รหัสประจำตัว 3-204-4-0084

Remarks :

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- <L : 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

Approved by

Dej Chanchong
Dej Chanchong
Senior Manager
โทรศัพท์ 3-323-4-9449

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0009
Lot ID: 2471923
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035296-2

Sample Number	2471923-1						
Sampled Date	Jul 03, 2024 9:42 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_012_2558	Plot	P 37	Site	K.W. Metal work Limited		
Location	Factory 2						
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/l	0.003	0.0005	0.007	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/l	0.003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr B	Bangkok
Lead	mg/l	0.003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.003	0.0003	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsangman
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokorn Anuk
Kanokorn Anuk
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0009
Lot ID: 2471923
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035296-2

Sample Number	2471923-1						
Sampled Date	Jul 03, 2024 9:42 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_012_2558	Plot	P 37	Site	K.W. Metal work Limited		
Location	Factory 2						
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.003	0.005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Nickel	mg/L	0.003	0.005	0.001	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.003	0.005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.008	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunee Chumchalee โทรศัพท์ 0-204-4-0020, Samart Khumphee โทรศัพท์ 0-204-4-0034

Remark :

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Technical Management

Savitree N.
Savitree Nongsangman
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokorn Anuk
Kanokorn Anuk
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING

No 0009
Lot ID: 2471923
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035296-3

Sample Number		2471923-1						Page 1 of 1
Sampled Date		Jul 03, 2024 9:42 AM						
Sample Description		Wastewater						
Contract ID		L_ESIE_012_2558		Plot P 37		Site		K.W. Metal work Limited.
Location		Factory 2						
Date Analysis Commenced		Jul 04, 2024						
Condition of Sample		Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property		Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.13	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunee Chumchalee โทรศัพท์ 0-204-4-0020, Samart Khumphee โทรศัพท์ 0-204-4-0034

Remark :

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Air ALS Thailand Company

Approved by

Savitree N.
Savitree Nongsangman
Manager

010-05551204 Phrasathan 43 Phrasathan Road Phrasathan Subdistrict Samut Prakan Bangkok 10130 Thailand TEL: 06-0-2760-3030 FAX: 06-0-2760-3107
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

No 0042
Lot ID: 2471924
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 30352300-1

Sample Number	2471924-1						
Sampled Date	Jul 03, 2024 10:05 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_014_2554	Plot	P 31	Site	Kade (Thailand) Co. Ltd		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of colour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	43.7	≤500	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	124	≤750	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	73	≤600	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	72	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis method, Environmental Engineering Association of Thailand, Jan. 20, 2004	Rayong
Oil & Grease	mg/L	-	5	4	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3510 B	Rayong
pH (on site) *	-	-	-	7.6	5.5 - 9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (S)	Rayong

Technical Management

Chontichak
Chontichak Subongchok
Scientist (3)
โทรศัพท์ 0-202-4-9449

Approved by

D. Chumchuan
Dej Chumchuan
Senior Manager
โทรศัพท์ 0-202-4-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0042
Lot ID: 2471924
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035300-1

Sample Number 2471924-1
Sampled Date Jul 03, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_014_2554 Plot P-31 Site Kode (Thailand) Co., Ltd
Date Analysis Commenced Jul 03, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.08	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 9370 D	Rayong
Temperature *	Degree C			32.5	≤45	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2550 D	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L			112	≤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			11	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanyoo Chumphaelee รหัสประจำตัว 3-323-0-0020, Samart Khumphaelee รหัสประจำตัว 3-204-0-0084

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

Chontichak

Chonticha Subongkorn
Senior Manager
รหัสประจำตัว 3-323-0-9440

Approved by

Dhanon

Dai Chantphon
Senior Manager
รหัสประจำตัว 3-323-0-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0009
Lot ID: 2471924
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035300-2

Sample Number 2471924-1
Sampled Date Jul 03, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_014_2554 Plot P-31 Site Kode (Thailand) Co., Ltd
Date Analysis Commenced Jul 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤0.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nosangam
Manager
รหัสประจำตัว 3-204-0-0007

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
รหัสประจำตัว 3-204-0-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0008
Lot ID: 2471924
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035300-2

Sample Number 2471924-1
Sampled Date Jul 03, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_014_2554 Plot P-31 Site Kode (Thailand) Co., Ltd
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanyoo Chumphaelee รหัสประจำตัว 3-323-0-0020, Samart Khumphaelee รหัสประจำตัว 3-204-0-0084

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

Savitree N.

Savitree Nosangam
Manager
รหัสประจำตัว 3-204-0-0007

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
รหัสประจำตัว 3-204-0-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0009
Lot ID: 2471924
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035300-3

Sample Number 2471924-1
Sampled Date Jul 03, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_014_2554 Plot P-31 Site Kode (Thailand) Co., Ltd
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.16	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanyoo Chumphaelee, Samart Khumphaelee

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

Approved by

Savitree N.

Savitree Nosangam
Manager





Analysis / Test Report

TESTING
No 0042Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471926
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035304-1

Page 1 of 2

Sample Number 2471926-1
Sampled Date Jul 03, 2024 1:50 PM
Sample Description Wastewater
Contract ID L_ESIE_178_2550 Plot P-34-36 Site Sumiiko Eastern Rubber (Thailand) Ltd.
Date Analysis Commenced Jul 03, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).
Physical Property Colorless, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5500 - O.C.	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5200 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤600	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	≤900	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	-	<3	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
pH (on site) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonocha Subongchok
Scientist (3)
โทรศัพท์ 0323-4-9449

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 0323-4-9442www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

Analysis / Test Report

TESTING
No 0042Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471926
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035304-1

Page 2 of 2

Sample Number 2471926-1
Sampled Date Jul 03, 2024 1:50 PM
Sample Description Wastewater
Contract ID L_ESIE_178_2550 Plot P-34-36 Site Sumiiko Eastern Rubber (Thailand) Ltd.
Date Analysis Commenced Jul 03, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).
Physical Property Colorless, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	32.2	≤45	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	756	≤3000	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanyunoy Chempakdee โทรศัพท์ 0323-4-0020, Samart Khumphee โทรศัพท์ 0323-4-0084

Remark :
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytes marked * : 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

Chontichak
Chonocha Subongchok
Scientist (3)
โทรศัพท์ 0323-4-9449

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 0323-4-9442www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

Analysis / Test Report

TESTING
No.0009Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471926
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035304-2

Page 1 of 2

Sample Number 2471926-1
Sampled Date Jul 03, 2024 1:50 PM
Sample Description Wastewater
Contract ID L_ESIE_178_2550 Plot P-34-36 Site Sumiiko Eastern Rubber (Thailand) Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).
Physical Property Colorless, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0033	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤0.5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nuchangam
Manager
โทรศัพท์ 0324-4-0007

Approved by

Kankorn Anuk
Kankorn Anuk
Assistant General Manager
โทรศัพท์ 0324-4-0004www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

Analysis / Test Report

TESTING
No.0009Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140P/O :
Project Name : Random Check
Project Location : ESIELot ID: 2471926
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035304-2

Page 2 of 2

Sample Number 2471926-1
Sampled Date Jul 03, 2024 1:50 PM
Sample Description Wastewater
Contract ID L_ESIE_178_2550 Plot P-34-36 Site Sumiiko Eastern Rubber (Thailand) Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).
Physical Property Colorless, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3121	Bangkok
Nickel	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanyunoy Chempakdee โทรศัพท์ 0323-4-0020, Samart Khumphee โทรศัพท์ 0323-4-0084

Remark :
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytes marked * : 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

Savitree N.
Savitree Nuchangam
Manager
โทรศัพท์ 0324-4-0007

Approved by

Kankorn Anuk
Kankorn Anuk
Assistant General Manager
โทรศัพท์ 0324-4-0004www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER



TESTING
No. 0009

Lot ID: 2471926
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035304-3

Page 1 of 1

Page 1 of 1Page 1 of 1

Page 1 of 1

Page 1 of 1

Approved by _____

Sawitree Nonsangiam
Manager

Sawitree Nonsangiam
Manager

Sawitree Nonsangiam
Manager

Sawitree Nonsangiam
Manager



TESTING
N = 9948

Lot ID: 2471927
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3535305-1

Page 2 of 2

Page 2 of 2Page 2 of 2

Page 2 of 2

Page 2 of 2

Approved by _____

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အမှတ် ၁၂၂ နှင့် ၁၂၃

အမှတ် ၁၂၂ နှင့် ၁၂၃



TESTING
No. 0042

Lot ID: 2471927
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035305-1

PMT 1 of 2

PMT 1 of 2PMT 1 of 2

Approved by _____

Dej Changchon
Senior Manager
โทร: 02-323-8

Dej Changchon
Senior Manager
โทร: 02-323-8

Dej Changchon
Senior Manager
โทร: 02-323-8



TESTING
No. 0000

Lot ID: 2471927
Date Received : Jul 03, 202
Date Reported : Jul 10, 202
Report Number : 3035305-2

Page 1 of 1

Page 1 of 1Page 1 of 1

Approved by _____

Assistant General Manager
msh@post.ru 3-204 e-0004

Assistant General Manager
msh@post.ru 3-204 e-0004

Assistant General Manager
msh@post.ru 3-204 e-0004



Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471927
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035305-3

Page 1 of 1

Sample Number	2471927-1						
Sampled Date	Jul 03, 2024 10:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_004_2551		Plot	P 39,40,41	Site	Hani Forging (Thailand) Co.,Ltd	
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chumphalee รหัสประจำตัว 3-323-3-0020, Samart Khumplhee รหัสประจำตัว 3-204-3-0094

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

Savitree N.
Savitree Nongsangam
Manager
รหัสประจำตัว 3-204-3-0007

Approved by

Kanokorn And
Kanokorn And
Assistant General Manager
รหัสประจำตัว 3-204-3-0094



Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471927
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035305-3

Page 1 of 1

Sample Number	2471927-1						
Sampled Date	Jul 03, 2024 10:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_004_2551		Plot	P-39,40,41	Site	Hani Forging (Thailand) Co.,Ltd	
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.37	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Rayong
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong
Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling by: Warunyo Chumphalee , Samart Khumpluee							
Remarks							
- LOD : Limit of Detection							
- "L" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)							
- Analyte(s) marked * : Not included in scope of Accreditation ISO/IEC 17025							
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chumphalee รหัสประจำตัว 3-323-3-0020, Samart Khumplhee รหัสประจำตัว 3-204-3-0094

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

Approved by

Savitree N.
Savitree Nongsangam
Manager
รหัสประจำตัว 3-204-3-0007



Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471928
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035306-1

Page 1 of 1

Sample Number	2471928-1							Page 1 of 2
Sampled Date	Jul 01, 2024 3:49 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_101_2550		Plot	P-42	Site	Nippon Paint (Thailand) Co., Ltd.		
Date Analysis Commenced	Jul 01, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	10.8	≤500	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	46	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	ADMI	-	3	52	≤600	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	-	3	49	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong	
Formaldehyde	mg/L	0.01	0.1	Not Detected	≤1	Wastewater Analysis Manual, Environmental Engineering Association of Thailand, 8th ed., 2008	Rayong	
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong	
pH (on site) *	-	-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong	

Technical Management

Chontichok
Chontichok Subongsoch
Scientist (3)
รหัสประจำตัว 3-323-3-9449

Approved by

Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว 3-323-3-9442



Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471928
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035306-1

Page 1 of 1

Page 1 of 1

Sample Number	2471928-1																
Sampled Date	Jul 01, 2024 3:49 PM																
Sample Description	Wastewater																
Contract ID	L_ESIE_101_2550	Plot	P-42		Site	Nippon Paint (Thailand) Co., Ltd.											
Date Analysis Commenced	Jul 01, 2024																
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)																
Physical Property	Yellow, a lot of odour, some solid and turbid																
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location										
Water Testing																	
Phenol	mg/L	0.005	0.01	<0.01	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong										
Temperature *	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong										
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	224	≤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	9	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong										

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Watan Krungsri (สุวณัฐ วัชรานนท์) 323-4-0019, Karubandit Kibsubanvith (คารุบันดี กิ๊บสุบอันวิท) 3204-1-0001

Remark:

LOD : Limit of Detection

~< : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)

Analysist marked * relate not included in scope of Accreditation ISO/IEC 17025

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

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Krunoo รหัสประจำตัว 3-323-3-0019, Karabundit Katsavavatt รหัสประจำตัว 3-204-3-0001

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

Approved by

Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว 3-323-3-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2471928
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035306-2

Sample Number : 2471928-1
Sampled Date : Jul 01, 2024 3:49 PM
Sample Description : Wastewater
Contract ID : L_ESIE_101_2550 Plot : P-42 Site : Nippon Paint (Thailand) Co., Ltd.
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA / USEPA).
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aspheric	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.0007	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤0.5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsam
Manager
โทรศัพท์ 0-204-4-0997

Approved by

Kanokorn Aret
Kanokorn Aret
Assistant General Manager
โทรศัพท์ 0-204-4-0004

Result apply to the sample as submitted, unless the sampling was controlled by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2471928
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035306-2

Sample Number : 2471928-1
Sampled Date : Jul 01, 2024 3:49 PM
Sample Description : Wastewater
Contract ID : L_ESIE_101_2550 Plot : P-42 Site : Nippon Paint (Thailand) Co., Ltd.
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA / USEPA).
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnun, Kirdbandit Kitsupavant

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * : were 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

Savitree N.
Savitree Nongsam
Manager
โทรศัพท์ 0-204-4-0997

Approved by

Kanokorn Aret
Kanokorn Aret
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2471928
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035306-3

Sample Number : 2471928-1
Sampled Date : Jul 01, 2024 3:49 PM
Sample Description : Wastewater
Contract ID : L_ESIE_101_2550 Plot : P-42 Site : Nippon Paint (Thailand) Co., Ltd.
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA / USEPA).
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.11	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤3	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnun, Kirdbandit Kitsupavant

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

Approved by

Savitree N.
Savitree Nongsam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 2471929
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035312-1

Sample Number : 2471929-1
Sampled Date : Jul 03, 2024 11:00 AM
Sample Description : Wastewater
Contract ID : L_ESIE_008_2560 Plot : T-01 Site : ISUZU MOTORS COMPANY (THAILAND) LIMITED
Date Analysis Commenced : Jul 03, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA / USEPA).
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	40.9	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O 6	Rayong
COD	mg/L		1.5	73	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D	Rayong
Color (at Original pH)	ADMI		5	74	≤600	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	71	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis Manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L		3	<3	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chontichak Subongchok
Solemn (3)
โทรศัพท์ 0-223-4-9449

Approved by

Dej Chanchon
Dej Chanchon
Senior Manager
โทรศัพท์ 0-223-4-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042

Lot ID: 2471929
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035312-1

Page 2 of 2

Sample Number	2471929-1						
Sampled Date	Jul 03, 2024 11:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2560	Plot	T.01	Site	ISUZU MOTORS COMPANY (THAILAND) LIMITED		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	°C			31.7	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2590 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L		5	248	≤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	39	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Waiyoo Chumphae รหัสประจำตัว 3-323-0-0020, Samart Khumphee รหัสประจำตัว 3-324-0-0084

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

Chontichak
Choricha Subongkon
Scientist (3)
รหัสประจำตัว 3-323-0-9443

Approved by

D. Khumphee
Dag Chongphon
Senior Manager
รหัสประจำตัว 3-323-0-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009

Lot ID: 2471929
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035312-2

Page 1 of 1

Sample Number	2471929-1									
Sampled Date	Jul 03, 2024 11:00 AM									
Sample Description	Wastewater									
Contract ID	L_ESIE_006_2560		Plot	T.01		Site	ISUZU MOTORS COMPANY (THAILAND) LIMITED			
Date Analysis Commenced	Jul 04, 2024									
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)									
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C-B	Bangkok			
Lead	mg/L	0.0002	0.0005	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			

Technical Management

Savitree N.
Savitree Nosingam
Manager
รหัสประจำตัว 3-204-0-0007

Approved by

Kanokkom Anek
Assistant General Manager
รหัสประจำตัว 3-204-0-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009

Lot ID: 2471929
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035312-2

Page 2 of 2

Sample Number	2471929-1						
Sampled Date	Jul 03, 2024 11:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2560	Plot	T.01	Site	ISUZU MOTORS COMPANY (THAILAND) LIMITED		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.0003	0.0005	0.30	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Waiyoo Chumphae รหัสประจำตัว 3-323-0-0020, Samart Khumphee รหัสประจำตัว 3-324-0-0084

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

Savitree N.
Savitree Nosingam
Manager
รหัสประจำตัว 3-204-0-0007

Approved by

Kanokkom Anek
Assistant General Manager
รหัสประจำตัว 3-204-0-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009

Lot ID: 2471929
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035312-3

Page 1 of 1

Sample Number	2471929-1						
Sampled Date	Jul 03, 2024 11:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_008_2560 Plot T 01 Site ISUZU MOTORS COMPANY (THAILAND) LIMITED.						
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservations standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.19	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 4500 F (D)	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : Waiwinyoo Chirmpaltee , Samart Khumphhee							
Remark :							
↳ LOD : Limit of Detection							
↳ "L" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)							
↳ Analytes marked * are not included in scope of Accreditation (SGS/TEC 17025)							
↳ The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Waiyoo Chumphae รหัสประจำตัว 3-323-0-0020, Samart Khumphee รหัสประจำตัว 3-324-0-0084

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

Savitree N.
Savitree Nosingam
Manager
รหัสประจำตัว 3-204-0-0007

Approved by

Kanokkom Anek
Assistant General Manager
รหัสประจำตัว 3-204-0-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0042
Lot ID: 2471930
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 1035313-1

Sample Number	2471930-1						
Sampled Date	Jul 01, 2024 11:26 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2564	Plot	FZ-1/2	Site	CPS Electronics (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	79.6	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - G	Rayong
COD	mg/L	1.5	25	190	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D	Rayong
Color (at Original pH)	ADMI	-	5	104	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Color (at pH 7.0)	ADMI	-	5	101	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5310 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Chontichak
Chonticha Subongkoch
Senior (3)
โทรศัพท์ 0-323-9-9449

Approved by

Dej Chongchon
Senior Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0042
Lot ID: 2471930
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 1035313-1

Page 1 of 2

Sample Number	2471930-1						
Sampled Date	Jul 01, 2024 11:26 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2564	Plot	FZ 1/2	Site	CPS Electronics (Thailand) Co Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOQ	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.16	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5330 D	Rayong
Temperature *	Degree C	-	-	31.8	≤45	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	-	-	328	≤5000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	-	30	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasin Kuntum นิสิตอาชีวศึกษา 323-9-0019 , Kardbunkit Kitsupavant นิสิตอาชีวศึกษา 204-9-0001

Remarks :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
- Analysis marked * value 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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Approved by

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0009
Lot ID: 2471930
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035313-2

Page 1 of 2						
Sample Number	2471930-1					
Sampled Date	Jul 01, 2024 11:26 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_001_2564	Plot	FZ-1/2	Site	CPS Electronics (Thailand) Co., Ltd.	
Date Analysis Commenced	Jul 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F
Boron	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F
Relevant Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-G B
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F
Manganese	mg/L	0.0003	0.0005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F

Technical Management

Savitree N.
Savitree N. Sangam
Manager
โทรศัพท์ 0-204-9-0007

Approved by

Kankhorm Anet
Assistant General Manager
โทรศัพท์ 0-204-9-0004

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0009
Lot ID: 2471930
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035313-2

Page 2 of 2

Sample Number	2471930-1						
Sampled Date	Jul 01, 2024 11:26 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2564	Plot	FZ-1/2	Site	CPS Electronics (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3115 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kuntum นิสิตอาชีวศึกษา 323-9-0019 , Kardbunkit Kitsupavant นิสิตอาชีวศึกษา 204-9-0001

Remarks :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
- Analysis marked * value 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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Savitree N. Sangam
Manager
โทรศัพท์ 0-204-9-0007

Approved by

Kankhorm Anet
Assistant General Manager
โทรศัพท์ 0-204-9-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009

Lot ID: 2471930
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035313-3

Page 2 of 3

Sample Number 2471930-1
Sampled Date Jul 01, 2024 11:26 AM
Sample Description Wastewater
Contract ID L_ESIE_001_2564 Plot T2-1/2 Site CPS Electronics (Thailand) Co., Ltd
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.16	≤100	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Witsan Kiatana, Kerdbundit Kiatapanyant

Remark :
LOD : Limit of Detection
"x" : Lower than LOQ (Limit of Quantization) / LOD (Limit of Reporting)
Analytical method : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by

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Savitree Nongsang
Manager

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042

Lot ID: 2471932
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035317-1

Page 1 of 3

Sample Number 2471932-1
Sampled Date Jul 01, 2024 2:08 PM
Sample Description Wastewater
Contract ID L_ESIE_019_2565 Plot S-37B Site Lanxin Rubber and Plastic Technology (Thailand) Co., Ltd
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	28.4	≤500	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	104	≤750	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	53	≤600	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	49	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkorn
Scientist (I)
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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042

Lot ID: 2471932
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035317-1

Page 2 of 2

Sample Number 2471932-1
Sampled Date Jul 01, 2024 2:08 PM
Sample Description Wastewater
Contract ID L_ESIE_019_2565 Plot S-37B Site Lanxin Rubber and Plastic Technology (Thailand) Co., Ltd
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.4	≤45	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 degrees C	mg/L	-	5	236	≤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	26	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Witsan Kiatana, Kerdbundit Kiatapanyant

Remark :
LOD : Limit of Detection
"x" : Lower than LOQ (Limit of Quantization) / LOD (Limit of Reporting)
Analytical method : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009

Lot ID: 2471932
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035317-2

Page 1 of 2

Sample Number 2471932-1
Sampled Date Jul 01, 2024 2:08 PM
Sample Description Wastewater
Contract ID L_ESIE_019_2565 Plot S-37B Site Lanxin Rubber and Plastic Technology (Thailand) Co., Ltd
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.13	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsang
Manager
vutthasarakul 3-323-a-9449

Approved by

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471932-1
Sampled Date Jul 01, 2024 2:08 PM
Sample Description Wastewater
Contract ID L-ESIE_019_2565 Plot 5-37B Site Lanex Rubber and Plastic Technology (Thailand) Co., Ltd.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kunturi, วสุณศิริ 323-1-0019, Karabundit Kitsuapavani, วิภาวดี 1-204-1-0001

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

Technical Management

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Savitree Nosangnam
Manager
โทรศัพท์ 1-204-1-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471932-1
Sampled Date Jul 01, 2024 2:08 PM
Sample Description Wastewater
Contract ID L-ESIE_019_2565 Plot 5-37B Site Lanex Rubber and Plastic Technology (Thailand) Co., Ltd.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.21	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3506 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kunturi, วสุณศิริ 323-1-0019, Karabundit Kitsuapavani, วิภาวดี 1-204-1-0001

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

Approved by

Savitree N.
Savitree Nosangnam
Manager

Life Sciences
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471933-1
Sampled Date Jul 01, 2024 10:27 AM
Sample Description Wastewater
Contract ID L-ESIE_201_2550 Plot E-10 Site Yorozu (Thailand) Co., Ltd.
Location Chemical
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Colorless, odorless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	<2.0	≤500	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	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADCU		5	5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at pH 7.0)	ADCU		5	5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4520 C (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2004	Rayong
Oil & Grease	mg/L		3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4506 - H (B)	Rayong

Technical Management

Chontichak
Chontichak Subongkoth
Senior Manager
โทรศัพท์ 1-323-1-9149

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 1-323-1-9142

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471933-1
Sampled Date Jul 01, 2024 10:27 AM
Sample Description Wastewater
Contract ID L-ESIE_201_2550 Plot E-10 Site Yorozu (Thailand) Co., Ltd.
Location Chemical
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Colorless, odorless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C			29.1	≤45	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	282	≤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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kunturi, วสุณศิริ 323-1-0019, Karabundit Kitsuapavani, วิภาวดี 1-204-1-0001

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

Technical Management

Chontichak
Chontichak Subongkoth
Senior Manager
โทรศัพท์ 1-323-1-9149

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 1-323-1-9142

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No.0009

Lot ID: 2471933
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035319-2

Sample Number	2471933-1																
Sampled Date	Jul 01, 2024 10:27 AM																
Sample Description	Wastewater																
Contract ID	L_ESTIE_201_2550				Plot	F-10		Site	Yorou (Thailand) Co., Ltd								
Location	Chemical																
Date Analysis Commenced	Jul 02, 2024																
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)																
Physical Property	Colorless, odorless, no solid and turbid																
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location										
Metals Testing																	
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok										
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok										
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok										
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok										
Hexavalent Chromium	mg/L	0.0003	0.001	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok										
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.7	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok										
Manganese	mg/L	0.0003	0.0005	0.001	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok										

Technical Management

Savitree N.
Savitree Nongsomkarn
Manager
โทรศัพท์ ๐-๒๐๔-๐๐๐๗

Approved by

Kankorn Ark
Kankorn Ark
Assistant General Manager
โทรศัพท์ ๐-๒๐๔-๐๐๐๘



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No.0009

Lot ID: 2471933
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035319-2

Sample Number	2471933-1											
Sampled Date	Jul 01, 2024 10 27 AM											
Sample Description	Wastewater											
Contract ID	L_ESTIE_201_2550		Plot	F-10		Site	Yorou (Thailand) Co.,Ltd					
Location	Chemical											
Date Analysis Commenced	Jul 02, 2024											
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)											
Physical Property	Colorless, odorless, no solid and turbid											
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location					
Metals Testing												
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok					
Nickel	mg/L	0.0003	0.0005	0.0006	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok					
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok					
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok					
Zinc	mg/L	0.0003	0.0005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok					

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kiatnont, m:0909113-323-1-0019, Kankorn Ark, m:0909113-323-1-0019

Remarks:

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

Savitree N.
Savitree Nongsomkarn
Manager
โทรศัพท์ ๐-๒๐๔-๐๐๐๗

Approved by

Kankorn Ark
Kankorn Ark
Assistant General Manager
โทรศัพท์ ๐-๒๐๔-๐๐๐๘



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No.0042

Lot ID: 2471934
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035319-3

Sample Number	2471934-1							Page 3 of 3
Sampled Date	Jul 01, 2024 10:37 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_201_2550	Plot	F-10	Site	Yorou (Thailand) Co., Ltd			
Location	Chemical							
Date Analysis Commenced	Jul 02, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Colorless, odourless, no solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	<0.005	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F ⁻	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (O)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kiatnont, m:0909113-323-1-0019, Kankorn Ark, m:0909113-323-1-0019

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- Analysis 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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any form without written consent from the laboratory.
ALS Laboratory (Thailand) Co., Ltd. 112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong, Thailand 21140. TEL: 02-010-1100 FAX: 02-010-2766-1119

Approved by

Savitree N.
Savitree Nongsomkarn
Manager



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No.0042

Lot ID: 2471934
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035319-1

Sample Number	2471934-1												
Sample Date	Jul 01, 2024 2:27 PM												
Sample Description	Wastewater												
Contract ID	L_ESTIE_111_2550			Plot	S-38	Site	NTN Manufacturing (Thailand) Co., Ltd						
Date Analysis Commenced	Jul 01, 2024												
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)												
Physical Property	Yellow, a lot of odour, some solid and turbid												
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location						
Water Testing													
BOD (5 days at 20 Degree C)	mg/L	-	2.0	52.0	≤500	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	181	≤750	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	47	≤600	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	40	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong						
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong						
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2001	Rayong						
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong						
pH (on site) *	-	-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong						

Technical Management

Chontichak
Chontichak Subongkorn
Senior (3)
โทรศัพท์ ๐-๒๐๔-๐๐๐๗

Approved by

Dej Changchon
Dej Changchon
Senior Manager
โทรศัพท์ ๐-๒๐๔-๐๐๐๘



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471934-1
Sampled Date Jul 01, 2024 2:27 PM
Sample Description Wastewater
Contract ID L_ESIE_111_2550 Plot 5-38 Site NTN Manufacturing (Thailand) Co., Ltd.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C			31.6	≤45	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	480	≤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	22	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasin Kruat (Wasin Kruat) 323-a-0019, Kardsundit Khasapavari (Kardsundit Khasapavari) 204-a-0001

Remark :
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Technical Management

Chontichak
Chonticha Subingkhon
Senior Manager
090-0000000-323-a-0019

Approved by

D. J. J. J.
Day Changchong
Senior Manager
090-0000000-323-a-0042

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471934-1
Sampled Date Jul 01, 2024 2:27 PM
Sample Description Wastewater
Contract ID L_ESIE_111_2550 Plot 5-38 Site NTN Manufacturing (Thailand) Co., Ltd.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.11	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-0.8	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Ningsam
Manager
090-0000000-204-a-0007

Approved by

Karokom Anek
Karokom Anek
Assistant General Manager
090-0000000-204-a-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471934-1
Sampled Date Jul 01, 2024 2:27 PM
Sample Description Wastewater
Contract ID L_ESIE_111_2550 Plot 5-38 Site NTN Manufacturing (Thailand) Co., Ltd.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.24	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasin Kruat (Wasin Kruat) 323-a-0019, Kardsundit Khasapavari (Kardsundit Khasapavari) 204-a-0001

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Technical Management

Savitree N.
Savitree Ningsam
Manager
090-0000000-204-a-0007

Approved by

Karokom Anek
Karokom Anek
Assistant General Manager
090-0000000-204-a-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number 2471934-1
Sampled Date Jul 01, 2024 2:27 PM
Sample Description Wastewater
Contract ID L_ESIE_111_2550 Plot 5-38 Site NTN Manufacturing (Thailand) Co., Ltd.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.18	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasin Kruat (Wasin Kruat) 323-a-0019, Kardsundit Khasapavari (Kardsundit Khasapavari) 204-a-0001

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

Approved by

Savitree N.
Savitree Ningsam
Manager

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Analysis / Test Report



TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471935
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035323-1

Page 1 of 2

Sample Number	2471935-1						
Sampled Date	Jul 01, 2024 2:43 PM						
Sample Description	Wastewater						
Contract ID	L_ESTC_158_2550	Plot	E-11	Site	G-TEXT Eastern Co.,Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	22.6	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - D-G	Rayong
COD	mg/L	1.5	45	120	≤750	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	53	≤600	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	52	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkhon
Scientist (3)
โทรศัพท์ 3-323-93449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-93442

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Analysis / Test Report



TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471935
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035323-1

Page 2 of 2

Sample Number	2471935-1						
Sampled Date	Jul 01, 2024 2:43 PM						
Sample Description	Wastewater						
Contract ID	L-ESTIE_158_2550		Plot	E-11	Site	G-TEXT Eastern Co., Ltd.	
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	Degree C			32.5	≤45	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		3	284	≤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		3	25	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : Wasan Kenuwut โทรศัพท์ 3-323-93019, Kerdbundit Krasupavant โทรศัพท์ 1-204-90001							
Remarks :							
- LOD : Limit of Detection							
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)							
- Analytical method * where not included in scope of Accreditation ISO/IEC 17025							
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Technical Management

Chontichak
Chonticha Subongkhon
Scientist (3)
โทรศัพท์ 3-323-93443

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-93442

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Analysis / Test Report



TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471935
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035323-2

Page 1 of 2

Sample Number	2471935-1						
Sampled Date	Jul 01, 2024 2:43 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_158_2550		Plot	E 11	Site	G-TEXT Eastern Co., Ltd.	
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0001	0.0001	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.09	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.006	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0033	0.0005	0.10	≤0.9	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nolsanjam
Manager
โทรศัพท์ 3-204-90007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-90004

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Analysis / Test Report



TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471935
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035323-2

Page 2 of 2

Sample Number	2471935-1						
Sampled Date	Jul 01, 2024 2:43 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_158_2550	Plot	E-11	Site	G-TEXT Eastern Co., Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Container in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01		<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.34	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kenuwut โทรศัพท์ 3-323-93019, Kerdbundit Krasupavant โทรศัพท์ 1-204-90001

Remarks :

- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analytical method * where not included in scope of Accreditation ISO/IEC 17025

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Technical Management

Savitree N.
Savitree Nolsanjam
Manager
โทรศัพท์ 3-204-90007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0009
Lot ID: 2471935
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035323-3

Sample Number	2471935-1						
Sampled Date	Jul 01, 2024 2:43 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_158_2550	Plot	E-11	Site	G-TEXT Eastern Co., Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.79	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Krunit, Karabundit Kinsupavand

Remark :
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * : Not included in scope of Accreditation ISO/IEC 17025
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0042
Lot ID: 2471936
Date Received : Jul 05, 2024
Date Reported : Jul 11, 2024
Report Number : 3035324-1

Sample Number	2471936-1						
Sampled Date	Jul 05, 2024 1:32 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2554	Plot	E-07B/1	Site	Hyet Engine System (Thailand) Co., Ltd.		
Date Analysis Commenced	Jul 05, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	16.7	≤500	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	132	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5200 D	Rayong
Color (at Original pH)	ADMI	-	5	87	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5100 F	Rayong
Color (at pH 7.0)	ADMI	-	5	85	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5100 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkach
Scientist (2)
โทรศัพท์ 0-323-99449

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-99442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0042
Lot ID: 2471936
Date Received : Jul 05, 2024
Date Reported : Jul 11, 2024
Report Number : 3035324-1

Sample Number	2471936-1						
Sampled Date	Jul 05, 2024 1:32 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2554	Plot	E-07B/1	Site	Hyet Engine System (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 05, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odor, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.2	≤45	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	240	≤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 102-105 degree C	mg/L	-	5	19	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Nattawut Athomprimmarat โทรศัพท์ 0-323-99006, Pattanapol Sawangjantam โทรศัพท์ 0-324-99002

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Technical Management

Chontichak
Chonticha Subongkach
Scientist (2)
โทรศัพท์ 0-323-99449

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-99442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0009
Lot ID: 2471936
Date Received : Jul 05, 2024
Date Reported : Jul 12, 2024
Report Number : 3035324-2

Sample Number	2471936-1						
Sampled Date	Jul 05, 2024 1:32 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2554	Plot	E-07B/1	Site	Hyet Engine System (Thailand) Co., Ltd.		
Date Analysis Commenced	Jul 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr 6	Bangkok
Iodide	mg/L	0.0003	0.0005	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagorn Indom
Section Head
โทรศัพท์ 0-324-99003

Approved by

Kanokorn Arret
Assistant General Manager
โทรศัพท์ 0-324-99004



Analysis / Test Report



TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471936
Date Received : Jul 05, 2024
Date Reported : Jul 12, 2024
Report Number : 3035324-2

Page 1 of 2

Sample Number 2471936-1
Sampled Date Jul 05, 2024 1:32 PM
Sample Description Wastewater
Contract ID L_ESIE_001_2554 Plot E-07B/1 Site Hycot Engine System (Thailand) Co., Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Nattawut Athonprammarat นวตวุฒิ อthonprammarat 3-323-0006, Pattarapol Sawangjaitam ปตารapol Sawangjaitam 3-204-0002

Remark:
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Technical Management

Channatt L.
Charattagorn Inthorn
Section Head
โทรศัพท์ 3-204-0008

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-0004

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Analysis / Test Report



TESTING

No 0008

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471936
Date Received : Jul 05, 2024
Date Reported : Jul 12, 2024
Report Number : 3035324-1

Page 1 of 2

Sample Number 2471936-1
Sampled Date Jul 05, 2024 1:32 PM
Sample Description Wastewater
Contract ID L_ESIE_001_2554 Plot E-07B/1 Site Hycot Engine System (Thailand) Co., Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.50	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Nattawut Athonprammarat นวตวุฒิ อthonprammarat 3-323-0006, Pattarapol Sawangjaitam ปตารapol Sawangjaitam 3-204-0002

Remark:
LOD : Limit of Detection
*+ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytes 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

Channatt L.
Charattagorn Inthorn
Section Head
โทรศัพท์ 3-204-0008

Approved by

Life Sciences

www.alsglobal.com

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Analysis / Test Report



TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471937
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035328-1

Page 1 of 2

Sample Number 2471937-1
Sampled Date Jul 03, 2024 10:45 AM
Sample Description Wastewater
Contract ID L_ESIE_146_2550 Plot P-32,33 Site Somborn Forging Technology Co., Ltd.
Date Analysis Commenced Jul 03, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	2.0	32.8	32.8	≤500	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	105	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADNI	5	22	22	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADNI	5	21	21	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.02	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	3	4	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 B	Rayong
pH (on site) *				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

Technical Management

Chontichak
Chonticha Subongkorn
Senior Manager
โทรศัพท์ 3-323-9949

Approved by

D. Chongkorn
Dej Chongkorn
Senior Manager
โทรศัพท์ 3-323-9942

Life Sciences

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Analysis / Test Report



TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471937
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035328-1

Page 1 of 2

Sample Number 2471937-1
Sampled Date Jul 03, 2024 10:45 AM
Sample Description Wastewater
Contract ID L_ESIE_146_2550 Plot P-32,33 Site Somborn Forging Technology Co., Ltd.
Date Analysis Commenced Jul 03, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C			34.8	≤45	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	436	436	≤2000	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	30	30	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Warunpong Chomphakke วรณพong Chomphakke 3-323-0020, Samart Khumphae สมาร์ท Khumphae 3-204-0084

Remark:
LOD : Limit of Detection
*+ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytes 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

Chontichak
Chonticha Subongkorn
Senior Manager
โทรศัพท์ 3-323-9949

Approved by

D. Chongkorn
Dej Chongkorn
Senior Manager
โทรศัพท์ 3-323-9942

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number 2471937-1
Sampled Date Jul 03, 2024 10:45 AM
Sample Description Wastewater
Contract ID L_ESIE_146_2550 Plot P-32.33 Site Somboon Forging Technology Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 C-8	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0004	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsangam
Manager
โทร: 09-0007-204-0007

Approved by

Kankorn Anek
Kankorn Anek
Assistant General Manager
โทร: 09-0007-204-0007



TESTING
No 0009

Lot ID: 2471937
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035328-2



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number 2471937-1
Sampled Date Jul 03, 2024 10:45 AM
Sample Description Wastewater
Contract ID L_ESIE_146_2550 Plot P-32.33 Site Somboon Forging Technology Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	2.65	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chimphelee โทร: 09-0007-323-0002, Samart Khumphee โทร: 09-0007-204-0004

Remarks:
- LOD : Limit of Detection
- "c" : 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

Savitree N.
Savitree Nongsangam
Manager
โทร: 09-0007-204-0007

Approved by

Kankorn Anek
Kankorn Anek
Assistant General Manager
โทร: 09-0007-204-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number 2471938-1
Sampled Date Jul 01, 2024 10:15 AM
Sample Description Wastewater
Contract ID L_ESIE_146_2550 Plot P-32.33 Site Somboon Forging Technology Co., Ltd.
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.39	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (C)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chimphelee, Samart Khumphee

Remarks:
- LOD : Limit of Detection
- "c" : 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

Approved by

Savitree N.
Savitree Nongsangam
Manager



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number 2471938-1
Sampled Date Jul 01, 2024 11:15 AM
Sample Description Wastewater
Contract ID L_ESIE_146_2550 Plot F2-4 Site TH RAYONG LTD.
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	2.0	9.8	9.8	≤500	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	35	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Color (at Original pH)	ADMI	5	34	34	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Color (at pH 7.0)	ADMI	5	31	31	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 C (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	3	3	3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				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

Technical Management

Chontichak
Chontichak Subongtham
Senior Manager
โทร: 09-0007-323-0049

Approved by

D. Chongchon
Dey Chongchon
Senior Manager
โทร: 09-0007-323-0042



TESTING
No 0042

Lot ID: 2471938
Date Received Jul 01, 2024
Date Reported Jul 08, 2024
Report Number 3035330-1

Page 2 of 3

Page 2 of 3

Remark 1:

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

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TESTING
No.0009

Lot ID: 2471938
Date Received Jul 01, 2024
Date Reported Jul 08, 2024
Report Number 3035330-2

Page 1 of 3

Page 1 of 3

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บริษัท จำกัด ๒๐๑๓ ๐๐๐๔

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TESTING
No. 0009

Lot ID: 2471938
Date Received : Jul 01, 2021
Date Reported : Jul 08, 2021
Report Number : 3035330-2

Page 2 of 2

Page 2 of 2

Remark:

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

Analyte(s) marked "c" are not included in scope of Accreditation ISO/IEC 17025

The laboratory has been accredited as an accredited laboratory, conforming with the ISO/IEC 17025

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TESTING
No. 0009

Lot ID: 2471938
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035330-3

Page 1 of 1

Page 1 of 1

Remarks:

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

Sawatree Hongsangam
Manager

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Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471940
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035337-1

Sample Number : 2471940-1
Sampled Date : Jul 01, 2024 1:58 PM
Sample Description : Wastewater
Contract ID : L_ESIE_011_2550 Plot : S-37C Site : FTS AUTOMOTIVE (THAILAND) CO., LTD
Location : WWTP
Date Analysis Commenced : Jul 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	+	2.0	< 2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 D	Rayong
COD	mg/L	1.5	25	< 25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 B	Rayong
Color (at Original pH)	ADMI	+	5	< 5	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	+	5	< 5	≤1000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	< 0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CH (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Oil & Grease	mg/L	+	3	< 3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	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

Technical Management

Chontichak
Chonticha Subongchok
Senior Manager
โทรศัพท์ 323-4-9449

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-9442

Results apply to the sample 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.

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Analysis / Test Report



TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471940
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035337-1

Sample Number : 2471940-1
Sampled Date : Jul 01, 2024 1:48 PM
Sample Description : Wastewater
Contract ID : L_ESIE_011_2550 Plot : S-37C Site : FTS AUTOMOTIVE (THAILAND) CO., LTD
Location : WWTP
Date Analysis Commenced : Jul 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	< 0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2530 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	+	5	114	≤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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kruam วสุณการ 323-4-0019, Karabundit Katsupavani วสุณการ 323-4-0001

Remarks :
LOD : Limit of Detection
* * : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytes marked * where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Chontichak
Chonticha Subongchok
Senior Manager
โทรศัพท์ 323-4-9449

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-9442

Results apply to the sample 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.

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Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471940
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035337-2

Sample Number : 2471940-1
Sampled Date : Jul 01, 2024 1:58 PM
Sample Description : Wastewater
Contract ID : L_ESIE_011_2550 Plot : S-37C Site : FTS AUTOMOTIVE (THAILAND) CO., LTD
Location : WWTP
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0008	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongnang
Manager
โทรศัพท์ 204-4-0007

Approved by

Kanokorn Ark
Assistant General Manager
โทรศัพท์ 204-4-0004

Results apply to the sample 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.

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Analysis / Test Report



TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2471940
Date Received : Jul 01, 2024
Date Reported : Jul 09, 2024
Report Number : 3035337-2

Sample Number : 2471940-1
Sampled Date : Jul 01, 2024 1:58 PM
Sample Description : Wastewater
Contract ID : L_ESIE_011_2550 Plot : S-37C Site : FTS AUTOMOTIVE (THAILAND) CO., LTD
Location : WWTP
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	< 0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Triclor	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	+	0.01	< 0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.006	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kruam วสุณการ 323-4-0019, Karabundit Katsupavani วสุณการ 323-4-0001

Remarks :
LOD : Limit of Detection
* * : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytes marked * where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Savitree N.
Savitree Nongnang
Manager
โทรศัพท์ 204-4-0007

Approved by

Kanokorn Ark
Assistant General Manager
โทรศัพท์ 204-4-0004

Results apply to the sample 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.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0009

Lot ID: 2471940
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035337-3

Sample Number 2471940-1
Sampled Date Jul 01, 2024 1:18 PM
Sample Description Wastewater
Contract ID L_ESIE_011_2550 Plot S-37C Site FTS AUTOMOTIVE (THAILAND) CO., LTD
Location WWTP
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in two glass vials: one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.02	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kiatniti, Kirdbundit Kitsupavanit

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

Approved by

Savitree N.
Savitree Nosangam
Manager

Result 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.



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0042

Lot ID: 2471941
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035339-1

Sample Number 2471941-1
Sampled Date Jul 01, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_129_2550 Plot E-6 Site SIG Combibloc Ltd
Location
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	77.8	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200, D-G	Rayong
COD	mg/L	1.5	25	218	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 B	Rayong
Color (at Original pH)	APHA	-	5	70	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	APHA	-	5	70	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	1	6	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	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

Technical Management

Chontichok
Chonticha Subingsoth
Scientist (3)
โทรศัพท์ 0-3231-9949

Approved by

Dej Changchom
Dej Changchom
Senior Manager
โทรศัพท์ 0-3231-9942



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0042

Lot ID: 2471941
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035339-1

Sample Number 2471941-1
Sampled Date Jul 01, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_129_2550 Plot E-6 Site SIG Combibloc Ltd
Location
Date Analysis Commenced Jul 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Biod	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Temperature *	Degree C	-	-	28.4	≤45	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	220	≤2000	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	70	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kiatniti, Kirdbundit Kitsupavanit, Kirdbundit Kitsupavanit

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

Chontichok
Chonticha Subingsoth
Scientist (3)
โทรศัพท์ 0-3231-9949

Approved by

Dej Changchom
Dej Changchom
Senior Manager
โทรศัพท์ 0-3231-9942



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0009

Lot ID: 2471941
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035339-2

Sample Number 2471941-1
Sampled Date Jul 01, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_ESIE_129_2550 Plot E-6 Site SIG Combibloc Ltd
Location
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok
Berium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok
Calcium	mg/L	0.0002	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.19	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500 C-B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3036 F	Bangkok

Technical Management

Savitree N.
Savitree Nosangam
Manager
โทรศัพท์ 0-3231-9949

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 0-3231-9942



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2471941
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035339-2

Page 1 of 1							
Sample Number	2471941-1						
Sampled Date	Jul 01, 2024 10:05 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_193_2550	Plot	E-6	Site	SIG Combibloc Ltd		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Khunthi วิสาสน์ 323-4-0019, Karibundit Krasavarn วิศณุวัฒน์ 323-4-0004

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

Savitree N.
Savitree Nosangam
Manager
โทรศัพท์ 323-4-0007

Approved by

Karibundit K.
Karibundit Krasavarn
Assistant General Manager
โทรศัพท์ 323-4-0004

Life Sciences

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2471941
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035339-3

Page 1 of 1

Sample Number	2471941-1						
Sampled Date	Jul 01, 2024 10:05 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_129_2550	Plot	E-6	Site	SIG Combibloc Ltd		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.53	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong
Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling by: Wasan Khunru, Karaboudit Kongsavanant							
Remarks:							
• LOD : Limit of Detection							
• "L" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)							
• Analyte(s) marked "a" 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							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Khunthi วิสาสน์ 323-4-0019, Karibundit Krasavarn วิศณุวัฒน์ 323-4-0004

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

Approved by

Savitree N.
Savitree Nosangam
Manager

Life Sciences

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2471942
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035341-1

Page 1 of 2							
Sample Number	2471942-1						
Sampled Date	Jul 01, 2024 9:47 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_193_2550	Plot	E-12A8	Site	Valeo Automotive (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.3	28.4	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B part 4500-5 O-G	Rayong
COD	mg/L	1.5	25	102	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMT		5	31	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMT		5	27	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L		5	5	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-1 H (B)	Rayong

Technical Management

Chontichak
Chonticha Suberphon
Senior Manager
โทรศัพท์ 323-4-9449

Approved by

Dej Changchon
Dej Changchon
Senior Manager
โทรศัพท์ 323-4-9442

Life Sciences

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2471942
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035341-1

Page 1 of 1							
Sample Number	2471942-1						
Sampled Date	Jul 01, 2024 9:47 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_193_2550	Plot	E-12A8	Site	Valeo Automotive (Thailand) Co., Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	33.4	≤45	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	-	280	≤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	-	-	29	≤300	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By : Wasan Khwuti วิสาขุฑ์วาทย์ 323-4-0019 , Kairatbun Kitapavanit วิสาขุฑ์วาทย์ 3204-4-0001							
Remarks							
LOD Limit of Detection							
*LOQ Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)							
Analyte(s) in line * value not included = scope of Accreditation (SQ/IEC 17025)							
The laboratory has been accepted as an external laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Khunthi วิสาสน์ 323-4-0019, Karibundit Krasavarn วิศณุวัฒน์ 323-4-0004

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

Approved by

Dej Changchon
Dej Changchon
Senior Manager
โทรศัพท์ 323-4-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2471942
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035341-2

Sample Number : 2471942-1
Sampled Date : Jul 01, 2024 9:47 AM
Sample Description : Wastewater
Contract ID : L_ESIE_193_2550 Plot : E-12AB Site : Valeo Automotive (Thailand) Co., Ltd
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0010	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nosingam
Manager
โทรศัพท์ 02-204-9-0007

Approved by

Karolkorn Anek
Karolkorn Anek
Assistant General Manager
โทรศัพท์ 02-204-9-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2471942
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035341-2

Sample Number : 2471942-1
Sampled Date : Jul 01, 2024 9:47 AM
Sample Description : Wastewater
Contract ID : L_ESIE_193_2550 Plot : E-12AB Site : Valeo Automotive (Thailand) Co., Ltd
Date Analysis Commenced : Jul 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatkarn วสุณ ภิเษก 3-323-9-0019, Karabundit Kiatkarn วสุณ ภิเษก 3-323-9-0001

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

Savitree N.
Savitree Nosingam
Manager
โทรศัพท์ 02-204-9-0007

Approved by

Karolkorn Anek
Karolkorn Anek
Assistant General Manager
โทรศัพท์ 02-204-9-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2471942
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035341-3

Sample Number : 2471942-1
Sampled Date : Jul 01, 2024 9:47 AM
Sample Description : Wastewater
Contract ID : L_ESIE_007_2551 Plot : F2-5 Site : SIW (Thailand) Co., Ltd
Date Analysis Commenced : Jul 01, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.70	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Ammonia as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatkarn วสุณ ภิเษก 3-323-9-0019, Karabundit Kiatkarn วสุณ ภิเษก 3-323-9-0001

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

Approved by

Savitree N.
Savitree Nosingam
Manager

ALSO 100% Phrasanthan 40, Phrasanthan Rd., Phrasanthan, Prachinburi 32110 Thailand. T0010 : +66 0 2760 1000 FAX : +66 0 2760 3197
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042

Lot ID: 2471943
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035341-1

Sample Number : 2471943-1
Sampled Date : Jul 01, 2024 10:46 AM
Sample Description : Wastewater
Contract ID : L_ESIE_007_2551 Plot : F2-5 Site : SIW (Thailand) Co., Ltd
Date Analysis Commenced : Jul 01, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	147	≤500	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	400	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F	Rayong
Color (at Original pH)	ADMI	-	5	115	≤600	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	113	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Chontichak
Chontichak Subergrach
Scientist (3)
โทรศัพท์ 02-204-9-0007

Approved by

D. Chongthong
D. Chongthong
Senior Manager
โทรศัพท์ 02-204-9-0002

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471943-1						
Sampled Date	Jul 01, 2024 10:46 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_007_2551	Plot	FZ-5	Site	SIW (Thailand) Co.,Ltd		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH	mg/L	0.005	0.01	0.18	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	Degree C	---	---	31.2	≤45	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			696	≤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			73	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kinnunil วรณัฐวานิชย์ 323-4-0019, Karndundit Kiatapornant วัฒนาพานิช 3204-4-0001

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

Chontichak
Chonticha Subongkoon
Scientist (3)
โทร: 09-09997333-4-9449

Approved by

Dej Chanchon
Dej Chanchon
Senior Manager
โทร: 09-09997333-4-9442

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Analysis / Test Report

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Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471943-1						
Sampled Date	Jul 01, 2024 10:46 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_007_2551	Plot	FZ 5	Site	SIW (Thanand) Co.,Ltd		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.33	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kinnunil วรณัฐวานิชย์ 323-4-0019, Karndundit Kiatapornant วัฒนาพานิช 3204-4-0001

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Technical Management

Savitree N.
Savitree Nosangam
Manager
โทร: 09-09997333-4-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
โทร: 09-09997333-4-0004

Life Sciences

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Sample Number	2471943-1						Page 1 of 2
Sampled Date	Jul 01, 2024 10:46 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_007_2551	Plot	FZ-5	Site	SIW (Thailand) Co.,Ltd.		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L			0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.15	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kinnunil วรณัฐวานิชย์ 323-4-0019, Karndundit Kiatapornant วัฒนาพานิช 3204-4-0001

Remarks:
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Analytes 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

Savitree N.
Savitree Nosangam
Manager
โทร: 09-09997333-4-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
โทร: 09-09997333-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Page 1 of 1						
Sample Number	2471943-1					
Sampled Date	Jul 01, 2024 10:46 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_007_2551	Plot	FZ-5	Site	SIW (Thailand) Co.,Ltd	
Date Analysis Commenced	Jul 02, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).					
Physical Property	Yellow, a lot of odour, solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	1.23	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing						
Fluoride as F *	mg/L	0.06	0.1	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (2)

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kinnunil วรณัฐวานิชย์ 323-4-0019, Karndundit Kiatapornant วัฒนาพานิช 3204-4-0001

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

Approved by

Savitree N.
Savitree Nosangam
Manager
โทร: 09-09997333-4-0007

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042

Lot ID: 2471944
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035347-1

Sample Number	2471944-1						
Sampled Date	Jul 03, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_011_2552		Plot	P 29	Site	Nippon Steel Welding (Thailand) Co., Ltd.	
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
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	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - D G	Rayong
COD	mg/L	1.5	25	<25	≤750	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	8	≤600	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	8	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
pH (on site) *				7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichok
Chonticha Subongroch
Solemnist (3)
โทรศัพท์มือถือ 3-323-9-9449

Approved by

Dej Changdon
Senior Manager
โทรศัพท์มือถือ 3-323-9-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009

Lot ID: 2471944
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035347-2

Sample Number	2471944-1						
Sampled Date	Jul 03, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_011_2552	Plot	P-29	Site	Nippon Steel Welding (Thailand) Co., Ltd.		
Date Analysis Commenced	Jul 05, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA). Yellow, a lot of odour, some solid and no turbid						
Physical Property							
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specifications	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0001	0.0005	0.0005	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.16	≤0.4	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nisangam
Manager
โทรศัพท์มือถือ 3-204-0-0007

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์มือถือ 3-204-0-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042

Lot ID: 2471944
Date Received : Jul 03, 2024
Date Reported : Jul 09, 2024
Report Number : 3035347-1

Sample Number	2471944-1						
Sampled Date	Jul 03, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_011_2552	Plot	P 29	Site	Nippon Steel Welding (Thailand) Co., Ltd.		
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D	Rayong
Temperature *	Degree C	-	-	31.8	≤45	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	1556	≤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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : Watanapong Chimpahlee วัฒนาพงษ์ ชิมพะเลอ ๖33-๖-0020, Smart Khamphuee วัฒนาพงษ์ ๖204-๖-0084							
Remark :							
- LOD : Limit of Detection							
- "e" : Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)							
Analytes marked * are not included in scope of Accreditation ISO/IEC 17025							
The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanunoy Chumphaee โทรศัพท์มือถือ 3-323-9-0020, Samart Khumphaee โทรศัพท์มือถือ 3-204-0-0084

Remarks:
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

Chontichok
Chonticha Subongroch
Solemnist (3)
โทรศัพท์มือถือ 3-323-9-9449

Approved by

Dej Changdon
Senior Manager
โทรศัพท์มือถือ 3-323-9-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009

Lot ID: 2471944
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3035347-2

Sample Number	2471944-1						
Sampled Date	Jul 03, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_011_2552						
Plot	P-29		Site	Nippon Steel Welding (Thailand) Co., Ltd			
Date Analysis Commenced	Jul 05, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA). Yellow, a lot of odour, some solid and no turbid						
Physical Property	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : บริษัท นีปปอน สตีล เวิลด์ไวด์ จำกัด 3-23-2020, Samart Khunphithee ผลิตเหล็ก 3 204 4 0084							
Remarks : LOD : Limit of Detection *+ : Lower than LOQ (Limit of Quantitation) / LOD (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							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanunoy Chumphaee โทรศัพท์มือถือ 3-323-9-0020, Samart Khumphaee โทรศัพท์มือถือ 3-204-0-0084

Remarks:
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
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Technical Management

Savitree N.
Savitree Nisangam
Manager
โทรศัพท์มือถือ 3-204-0-0007

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์มือถือ 3-204-0-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009

Lot ID: 2471945
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035351-7

Page 2 of 2

Sample Number	2471945-1						
Sampled Date	Jul 01, 2024 9:56 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_021_2566	Plot	E 07B	Site	HELIO ASIA LIMITED		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Khunthi วสุกันต์ ๖-323-๖-0019, Karobundit Ketsupavanit วสุกันต์ ๖-204-๖-0001

Remark :
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Technical Management

Savitree N.
Savitree Nossangam
Manager
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Approved by

Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009

Lot ID: 2471945
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3035351-3

Page 1 of 1

Sample Number	2471945-1						
Sampled Date	Jul 01, 2024 9:56 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_021_2566	Plot	E 07B	Site	HELIO ASIA LIMITED		
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.21	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Khunthi วสุกันต์ ๖-323-๖-0019, Karobundit Ketsupavanit วสุกันต์ ๖-204-๖-0001

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

Savitree N.
Savitree Nossangam
Manager

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ผลการตรวจวิเคราะห์ประจำเดือนสิงหาคม



TESTING
No. 0042

Lot ID: 2484001
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063755-1

Page 1 of 2

Analyte	Unit	LOD	log (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing SDS (5 days at 20 Degree C)	mg/L	-	2.0	24.7	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 O.C	Reynolds
COD	mg/L	15	25	127	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D	Reynolds
Color (at Original pH)	ADMI	-	5	71	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Reynolds
Color (at pH 7.0)	APMC	-	5	69	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Reynolds
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Reynolds
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2001	Reynolds
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Reynolds
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Reynolds


Dej Changchon
Senior Manager
wt.Donmuang 1-123-6

[illegible]

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TESTING
No. 0009

Lot ID: 2484001
Date Received Aug 01, 2024
Date Reported Aug 08, 2024
Report Number: 3063255-2

Page 1 of 2

Analyte	Unit	LOD	LOQ (0.05)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.13	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C-8	Bangkok
Lead	mg/L	0.0003	0.0005	0.0010	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok


 Kanokorn Anuk
 Assistant General Manager
 โทรสาร ๖๖-๒๐๔ ๖ ๐๐๑

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A. Newman, M. El and J. A. O'Connell



TESTING
No 0042

Lot ID: 2484001
Date Received Aug 01, 2024
Date Reported Aug 06, 2024
Report Number 3063755-1

Page 2 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Standard	Method	Testing Location
Water Testing							
pH	mg/L	0.005	0.01	0.13	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	—	—	29.9	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 U	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	—	5	284	≤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	19	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Removal:

Remark :
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<* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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D. Johnson.
Dej Changchorn
Senior Manager
โทร 02-323-8

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TESTING
No. 0009

Lot ID: 2484001
Date Received : Aug 01, 202
Date Reported : Aug 08, 202
Report Number : 1063755-2

Page 2 of 2

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	±0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	±1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 & 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	±0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 & 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	±0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 & 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.12	±5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 & 3030	Bangkok

Source: <http://www.fishbase.org>

LCD : Limit of Detection
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Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009
Lot ID: 2484001
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063735-3

Page 1 of 1

Sample Number : 2484003-1
Sampled Date : Aug 01, 2024 10:20 AM
Sample Description : Wastewater
Contract ID : L_ESIE_002_2554 Plot : M-16 Site : EMHART TECHNOLOGIES (THAILAND) LTD
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odor, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.22	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Turtong , Pattarapol Sawangjatan

Remark
LOD : Limit of Detection
"≤" : lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by

Sawitree N.
Sawitree Nongniam
Manager

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042
Lot ID: 2484003
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063832-1

Page 2 of 2

Sample Number : 2484003-1
Sampled Date : Aug 01, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_138_2550 Plot : M-25 Site : Semitsu Thai Co., Ltd.
Location : Factory 1
Date Analysis Commenced : Aug 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odor, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.08	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D	Rayong
Temperature	Degree C	-	-	31.0	≤45	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	160	≤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	21	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Turtong มิดดูลาวร 323-0022, Pattarapol Sawangjatan มิดดูลาวร 323-0022

Remark
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Technical Management

Chontichak
Chonticha Subonglach
Scientist (3)
มิดดูลาวร 323-9949

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มิดดูลาวร 323-9942

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042
Lot ID: 2484003
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063832-1

Page 1 of 2

Sample Number : 2484003-1
Sampled Date : Aug 01, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_138_2550 Plot : M-25 Site : Semitsu Thai Co., Ltd.
Location : Factory 1
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odor, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.1	≤500	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	145	≤750	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	57	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4100 F	Rayong
Color (at pH 7.0)	ADMI	-	5	56	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, F)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Oil & Grease	mg/L	-	1	10	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site)	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subonglach
Scientist (3)
มิดดูลาวร 323-9949

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มิดดูลาวร 323-9942

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009
Lot ID: 2484003
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063832-2

Page 1 of 2

Sample Number : 2484003-1
Sampled Date : Aug 01, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_138_2550 Plot : M-25 Site : Semitsu Thai Co., Ltd.
Location : Factory 1
Date Analysis Commenced : Aug 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odor, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0025	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.04	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Sawitree N.
Sawitree Nongniam
Manager
มิดดูลาวร 323-9949

Approved by

K. Anuk
Kanitkorn Anuk
Assistant General Manager
มิดดูลาวร 323-9944

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484003
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3053832-2

Page 2 of 2

Sample Number	2484003-1					
Sampled Date	Aug 01, 2024 2:00 PM					
Sample Description	Wastewater					
Contract ID	L_ESIE_138_2550	Plot	11-25		Site	Semitsu Tha Co., Ltd.
Location	Factory 1					
Date Analysis Commenced	Aug 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Metals Testing						
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Zinc	mg/L	0.003	0.005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong (ผู้ตรวจสอบ) 3-323-0022, Patarakorn Sawangjarn (ผู้ตรวจสอบ) 3-204-0002

Remarks :
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical marked * : were 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

Savitree N.
Savitree Nongsingam
Manager
โทรศัพท์ 3-204-0002

Approved by

Kanokorn J.
Kanokorn J.
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484003
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3053832-3

Page 3 of 3

Sample Number	2484003-1					
Sampled Date	Aug 01, 2024 2:00 PM					
Sample Description	Wastewater					
Contract ID	L_ESIE_138_2550	Plot	M-25	Site	Semitsu Tha Co., Ltd	
Location	Factory 1					
Date Analysis Commenced	Aug 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	0.19	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing	mg/L	0.05	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500 F (D)
Fluoresce as F +	mg/L	0.05	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500 F (D)
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/558 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates						
Sampling By : Ekachai Tunzong , Pattarapol Sawangjatanan						
Remark : LOD : Limit of Detection " < " : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting) Analytes marked * : Not included in scope of Accreditation ISO/IEC 17025 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.						

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong (ผู้ตรวจสอบ) 3-323-0022, Patarakorn Sawangjarn (ผู้ตรวจสอบ) 3-204-0002

Remarks :
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical marked * : were not included in scope of Accreditation ISO/IEC 17025
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Approved by

Savitree N.
Savitree Nongsingam
Manager

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484005
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3053846-1

Page 1 of 2

Sample Number	2484005-1						
Sampled Date	Aug 01, 2024 2:05 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_185_2550	Plot	M-26		Site	Semitsu Tha Co., Ltd.	
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	338	≤500	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	618	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMC	-	5	59	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMC	-	5	59	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.005	0.1	Not Detected	≤1	Wastewater Analytical Manual, Environmental Engineering Association of Thailand, 1st ed., 2004	Rayong
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				6.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 H (B)	Rayong

Technical Management

Chontichak
Chontichak Subongkroh
Scientist (3)
โทรศัพท์ 3-323-0949

Approved by

Dij Chongchon
Dij Chongchon
Senior Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484005
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3053846-1

Page 2 of 2

Sample Number	2484005-1						
Sampled Date	Aug 01, 2024 2:05 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_185_2550	Plot	M-26		Site	Semitsu Tha Co. Ltd.	
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a bit of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.14	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.9	≤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	348	≤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 (±5) degree C	mg/L	-	5	83	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By: อภิชาติ ตุนตง อภิชาติตุนตง 3-323-9-0022 , เพียรพงศ์ สว่างวงศ์ ตุนตง อภิชาติตุนตง 1-204-4-0002							
Remarks:							
LOD : Limit of Detection							
"C" : lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)							
Analytical method (-) : are not included in scope of Accreditation ISO/IEC 17025							
The accuracy has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong (ผู้ตรวจสอบ) 3-323-0022, Patarakorn Sawangjarn (ผู้ตรวจสอบ) 3-204-0002

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

Approved by

Dij Chongchon
Dij Chongchon
Senior Manager
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484005
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-2

Page 1 of 2

Sample Number	2484005-1										
Sampled Date	Aug 01, 2024 2:05 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_185_2550		Plot	M-26		Site	Somchai Thai Co., Ltd				
Date Analysis Commenced	Aug 03, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0003	0.0005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Technical Management

Savitree N.
Savitree Nongsangam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484005
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-2

Page 2 of 2

Sample Number	2484005-1						
Sampled Date	Aug 01, 2024 2:05 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_185_2550		Plot	M-26	Site	Somchai Thai Co., Ltd.	
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.17	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates.

Sampling By : อธิบดีอุตสาหกรรม 323-0-0022, พัทยาเขตสงขลา อุตสาหกรรม 3204-0-0002

Remarks:

LOD : Limit of Detection

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

Analytical method : where not included in scope of Accreditation ISO/IEC 17025

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

Technical Management

Savitree N.
Savitree Nongsangam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484005
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-3

Page 1 of 2

Sample Number	2484005-1						
Sampled Date	Aug 01, 2024 2:05 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_185_2550		Plot	M 26		Site	Sermesu Thai Co., Ltd.
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.34	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates.
Sampling By : อธิบดีอุตสาหกรรม 323-0-0022, พัทยาเขตสงขลา อุตสาหกรรม 3204-0-0002

Remarks:
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Savitree N.
Savitree Nongsangam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484006
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063847-1

Page 1 of 2

Sample Number	2484006-1							
Sampled Date	Aug 01, 2024 11:20 AM							
Sample Description	Wastewater							
Contract ID	L_ESTC_153_2550		Plot	M-30	Site	Sugino Press (Thailand) Co., Ltd		
Date Analysis Commenced	Aug 01, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	68.8	≤900	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 D (C)	Rayong	
COD	mg/L	1.5	25	242	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at 20°C) (Pt)	ADMI	-	5	83	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4100 F	Rayong	
Color (at 21°C) (Pt)	ADMI	-	5	79	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as KCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 D (C, D)	Rayong	
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong	
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong	
pH (on site) *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 (4.0)	Rayong	

Technical Management

Chontichak
Chontichak Nongsangam
Scientist (3)
โทรศัพท์ 0-204-4-9449

Approved by

D. Chantachon
D. Chantachon
Senior Manager
โทรศัพท์ 0-204-4-9442

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory. ALS Laboratory Group is pleased to provide electronic results that this report is not required except at all.

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112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2484006
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063847-1

Page 2 of 2

Sample Number	2484006-1					
Sampled Date	Aug 01, 2024 11:20 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_153_2550	Plot	M-30	Site	Sugno Press (Thailand) Co., Ltd	
Date Analysis Commenced	Aug 01, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a bit of turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Testing Location						
Water Testing						
Phenol	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 D
Temperature	Degree C	-	-	30.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	204	≤1000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	73	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong วิไลวัฒนาวิทย์ 3-323-4-0022, Pattarapol Sawangakom วิไลวัฒนาวิทย์ 3-204-4-0002

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were 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

Chontichak
Chonticha Subongkroh
Scientist (3)
วิไลวัฒนาวิทย์ 3-323-4-9449

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Dei Changchon
Senior Manager
วิไลวัฒนาวิทย์ 3-323-4-9412

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112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484006
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063947-2

Page 2 of 2

Sample Number	2484006-1						
Sampled Date	Aug 01, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_153_2550	Plot	M-30	Site	Sugno Press (Thailand) Co., Ltd		
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.21	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong วิไลวัฒนาวิทย์ 3-323-4-0022, Pattarapol Sawangakom วิไลวัฒนาวิทย์ 3-204-4-0002

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were 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

Savitree N.
Savitree Nongkum
Manager
วิไลวัฒนาวิทย์ 3-204-4-0007

Approved by

Kankorn Anek
Assistant General Manager
วิไลวัฒนาวิทย์ 3-204-4-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484006
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063847-2

Page 1 of 2

Sample Number	2484006-1					
Sampled Date	Aug 01, 2024 11:20 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_153_2550	Plot	M-30	Site	Sugno Press (Thailand) Co., Ltd	
Date Analysis Commenced	Aug 03, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Copper	mg/L	0.0003	0.0005	0.04	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3050 G B
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Technical Management

Savitree N.
Savitree Nongkum
Manager
วิไลวัฒนาวิทย์ 3-204-4-0007

Approved by

Kankorn Anek
Assistant General Manager
วิไลวัฒนาวิทย์ 3-204-4-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484006
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063947-1

Page 1 of 1

Sample Number	2484006-1					
Sampled Date	Aug 01, 2024 11:20 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_153_2550	Plot	M-30	Site	Sugno Press (Thailand) Co.,Ltd	
Date Analysis Commenced	Aug 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply in pretreatment-preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Testing Location						
Metals Testing						
Iron	mg/L	0.003	0.005	0.38	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing						
Fluoride as F *	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (0)

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong วิไลวัฒนาวิทย์ 3-323-4-0022, Pattarapol Sawangakom วิไลวัฒนาวิทย์ 3-204-4-0002

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were 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

Savitree N.
Savitree Nongkum
Manager
วิไลวัฒนาวิทย์ 3-204-4-0007

Approved by

Kankorn Anek
Assistant General Manager
วิไลวัฒนาวิทย์ 3-204-4-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2484007
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-1

Page 1 of 2

Sample Number : 2484007-1
Sampled Date : Aug 01, 2024 10:45 AM
Sample Description : Wastewater
Contract ID : L_ESIE_020_2557 Plot : M31,32 Site : NT Seimsu (Thailand) Co., Ltd.
Date Analysis Commenced : Aug 01, 2024

Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, sand and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.5	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B (part 5200 D)	Rayong
COD	mg/L	15	25	132	<750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADME	-	5	37	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Color (at pH 7.0)	ADME	-	5	34	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 C (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
Oil & Grease	mg/L	-	-	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Chontichak
Chontichak Subongkroh
Senior Manager
โทรศัพท์ 0-323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-9442

Results apply to the samples as submitted, unless the sampling was conducted by ALS. The part of this report may be reproduced or altered without written consent from the laboratory.

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2484007
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-1

Page 2 of 2

Sample Number : 2484007-1
Sampled Date : Aug 01, 2024 10:45 AM
Sample Description : Wastewater
Contract ID : L_ESIE_020_2557 Plot : M31,32 Site : NT Seimsu (Thailand) Co., Ltd.
Date Analysis Commenced : Aug 01, 2024

Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, sand and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.5	≤45	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	112	≤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	39	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : อ.สุชาติ ทุมทอง รหัสประจำตัว 323-9-0022, พัชรภณี สงวนงาม รหัสประจำตัว 3204-9-0002

Remark

- LOD : Limit of Detection
- * : Lower than LOD (Limit of Quantization) / LOQ (Limit of Reporting)
- Apex (H) : marked * where not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Chontichak
Chontichak Subongkroh
Senior Manager
โทรศัพท์ 0-323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-9442

Results apply to the samples as submitted, unless the sampling was conducted by ALS. The part of this report may be reproduced or altered without written consent from the laboratory.

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Analysis / Test Report

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484007
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-2

Page 1 of 2

Sample Number : 2484007-1
Sampled Date : Aug 01, 2024 10:45 AM
Sample Description : Wastewater
Contract ID : L_ESIE_020_2557 Plot : M31,32 Site : NT Seimsu (Thailand) Co., Ltd.
Date Analysis Commenced : Aug 03, 2024

Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, sand and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0008	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsangman
Manager
โทรศัพท์ 0-204-6007

Approved by

Kanokkan Anis
Assistant General Manager
โทรศัพท์ 0-204-6004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484007
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063846-2

Page 2 of 2

Sample Number : 2484007-1
Sampled Date : Aug 01, 2024 10:45 AM
Sample Description : Wastewater
Contract ID : L_ESIE_020_2557 Plot : M31,32 Site : NT Seimsu (Thailand) Co., Ltd.
Date Analysis Commenced : Aug 03, 2024

Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, sand and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.15	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : อ.สุชาติ ทุมทอง รหัสประจำตัว 323-9-0022, พัชรภณี สงวนงาม รหัสประจำตัว 3204-9-0002

Remark

- LOD : Limit of Detection
- * : Lower than LOD (Limit of Quantization) / LOQ (Limit of Reporting)
- Apex (H) : marked * where not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

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Savitree Nongsangman
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Approved by

Kanokkan Anis
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Results apply to the samples as submitted, unless the sampling was conducted by ALS. The part of this report may be reproduced or altered without written consent from the laboratory.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484007
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063814-3

Page 1 of 1

Sample Number	2484007-1						
Sampled Date	Aug 01, 2024 10:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_020_2557	Pilot	M31.32	Site	NT Seimtsu (Thailand) Co., Ltd.		
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.06	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.05	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong , Pattarapol Sawangnam

Remarks :
LOD : Limit of Detection
"x" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked "x" 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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Analysis / Test Report

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484008
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063811-1

Page 1 of 1

Sample Number	2484008-1						
Sampled Date	Aug 01, 2024 2:35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_029_2557	Pilot	M-33	Site	Nakamura Precision (Thailand) Co., Ltd.		
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment—preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D	Rayong
Temperature *	Degree C	-	-	30.8	≤45	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	124	≤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	38	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong, Pattarapol Sawangnam

Remarks :
LOD : Limit of Detection
"x" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked "x" 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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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484008
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063811-1

Page 1 of 1

Sample Number	2484008-1						
Sampled Date	Aug 01, 2024 2:35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_029_2557	Pilot	M-33	Site	Nakamura Precision (Thailand) Co. Ltd		
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	30.4	≤500	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	95	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
Color (at Original pH)	ADMI	-	5	32	≤600	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	28	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, D)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis Manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
pH (on site) *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (9)	Rayong

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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484008
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063811-2

Page 1 of 1

Sample Number	2484008-1						
Sampled Date	Aug 01, 2024 2:35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_029_2557	Pilot	M-33	Site	Nakamura Precision (Thailand) Co., Ltd.		
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0006	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.010	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3060 G-B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484008
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306.8551-2

Page 2 of 2

Sample Number	2484008-1										
Sampled Date	Aug 01, 2024 2:35 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_029_2557		Pilot	M-33	Site	Nakamura Precision (Thailand) Co.,Ltd					
Date Analysis Commenced	Aug 01, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply in pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of colour, solid and turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok				
Nickel	mg/L	0.0003	0.0005	0.001	≤0.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Total Chromium *	mg/L	-	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.003	0.005	0.0	≤0.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunlong mtd@alsglobal.com 09-204-0022, Pattarapol Sawangratam mtd@alsglobal.com 09-204-0002

Remarks:
LOD : Limit of Detection
" < " : lower than LOQ (Limit of Quantification) / LOB (Limit of Reporting)
Analyte(s) marked * : value 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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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484009
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306.8552-1

Page 2 of 2

Sample Number	2484009-1											Page 1 of 1
Sampled Date	Aug 01, 2024 3:15 PM											
Sample Description	Wastewater											
Contract ID	L_ESIE_195_2550		Plot	M-12		Site	Vioxxet International Corporation					
Date Analysis Commenced	Aug 01, 2024											
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply in pretreatment - preservation standards (APHA / USEPA)											
Physical Property	Yellow, a lot of odour, some solids and a lot of turbid											
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location					
Water Testing												
BOD (5 days at 20 Degree C)	mg/L	-	2.0	42.4	≤500	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	15	25	144	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D	Rayong					
Color (at Original pH)	ADMI	-	5	82	≤600	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	82	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong					
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C)	Rayong					
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong					
Oil & Grease	mg/L	-	5	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong					
pH (on site) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1500 - (H)	Rayong					

Technical Management

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Analysis / Test Report

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484008
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306.8551-3

Page 1 of 1

Sample Number	2484008-1							
Sampled Date	Aug 01, 2024 2:35 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_029_2557		Pilot	M-33	Site	Nakamura Precision (Thailand) Co., Ltd.		
Date Analysis Commenced	Aug 02, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply in pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odor, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.20	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunlong , Pattarapol Sawangratam

Remarks:
LOD : Limit of Detection
" < " : lower than LOQ (Limit of Quantification) / LOB (Limit of Reporting)
Analyte(s) marked * : value 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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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484009
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306.8552-1

Page 2 of 2

Sample Number	2484009-1											Page 1 of 1
Sampled Date	Aug 01, 2024 3:15 PM											
Sample Description	Wastewater											
Contract ID	L_ESIE_195_2550		Plot	M-12		Site	Watek International Corporation					
Date Analysis Commenced	Aug 01, 2024											
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply in pretreatment - preservation standards (APHA / USEPA)											
Physical Property	Yellow, a lot of odor, some solid and a lot of turbid											
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location					
Water Testing												
Phenol	mg/L	0.005	0.01	0.09	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong					
Temperature *	Degree C	-	-	33.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong					
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	248	≤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	19	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong					

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunlong mtd@alsglobal.com 09-204-0022, Pattarapol Sawangratam mtd@alsglobal.com 09-204-0002

Remarks:
LOD : Limit of Detection
" < " : lower than LOQ (Limit of Quantification) / LOB (Limit of Reporting)
Analyte(s) marked * : value 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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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484009
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3053852-2

Page 1 of 2

Sample Number	2484009-1												Page 1 of 1
Sampled Date	Aug 01, 2024 3:15 PM												
Sample Description	Wastewater												
Contract ID	L_ESIE_195_2550		Plot M-12		Site Watek International Corporation								
Date Analysis Commenced	Aug 03, 2024												
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)												
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid												
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location						
Metals Testing													
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 D, 3030 F	Bangkok						
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Copper	mg/L	0.0003	0.0005	0.15	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Hexavalent Chromium	mg/L	0.0003	0.0005	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Manganese	mg/L	0.0003	0.0005	0.22	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						

Technical Management

Sawitree N.

Sawitree Nosangum

Manager

mduwawaf 3-204-4-0007

Approved by

Kankon Anet

Kankon Anet

Assistant General Manager

mduwawaf 3-204-4-0004

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P/O :
Project Name : Random Check
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TESTING
No 0009
Lot ID: 2484009
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3053852-2

Page 2 of 2

Sample Number	2484009-1										
Sampled Date	Aug 01, 2024 3:15 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_195_2550 Plot M-12					Site					Wateak International Corporation
Date Analysis Commenced	Aug 03, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok				
Trickler	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.0003	0.0005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Guideline: Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Ekchakra Tunyong สิบเจ็ดแสน 3-33-3-0022, Patarakool Sawangjatan สิบแปดแสน 3-33-3-0022

Remark:

- LOD : Limit of Detection
- * : Less than LOQ (Limit of Quantitation) / LOB (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

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunong mduwawaf 3-223-4-0022, Patarapol Sawangjiam mduwawaf 3-204-4-0002

Remarks:
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * : Item not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Sawitree N.

Sawitree Nosangum

Manager

mduwawaf 3-204-4-0007

Approved by

Kankon Anet

Kankon Anet

Assistant General Manager

mduwawaf 3-204-4-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484009
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3053852-3

Page 1 of 2

Sample Number	2484009-1										Plot M-12		Site Watek International Corporation	
Sampled Date	Aug 01, 2024 3:15 PM													
Sample Description	Wastewater													
Contract ID	L_ESIE_195_2550													
Date Analysis Commenced	Aug 02, 2024													
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)													
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid													
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location							
Metals Testing														
Iron	mg/L	0.003	0.005	0.32	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok							
Water Testing														
Fluoride as F *	mg/L	0.00	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong							

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunong mduwawaf 3-223-4-0022, Patarapol Sawangjiam mduwawaf 3-204-4-0002

Remarks:
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * : Item not included in scope of Accreditation ISO/IEC 17025
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Approved by

Sawitree N.

Sawitree Nosangum

Manager

Technical Management

Chonticha

Chonticha Sawangjiam

Manager

Approved by

Dej Chongchon

Dej Chongchon

Manager

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484011
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3051855-1

Page 2 of 2

Sample Number	2484011-1						
Sample Date	Aug 01, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_005_2559						
Plot	M-07		Site	ETK EMS ASIA PRODUCTIONS COMPANY LIMITED			
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.07	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 9500 D	Rayong
Temperature *	Degree C			29.8	≤45	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		3	152	≤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	31	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 025/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tuntong วิศกรสุราษฎร์ 323-4-0022, Patrapol Sawangpatam วิศกรสุราษฎร์ 3204-4-0002

Remark:
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Technical Management

Chontichak
Chonticha Subangloch
Scientist (3)
วิศกรสุราษฎร์ 323-4-9449

Approved by

D. Chongchon
Diq Chongchon
Senior Manager
วิศกรสุราษฎร์ 323-4-9442

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484011
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3061855-2

Page 1 of 2

Sample Number	2484011-1						
Sample Date	Aug 01, 2024 3 35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_005_2559						
Plot	M-07						
Site	ETK EMS ASIA PRODUCTIONS COMPANY LIMITED						
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0008	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Calcium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongam
Manager
วิศกรสุราษฎร์ 3204-4-0007

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
วิศกรสุราษฎร์ 3204-4-0004

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Thailand 21140
P/O :
Project Name : Random Check
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TESTING
No.0009
Lot ID: 2484011
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3051855-2

Page 2 of 2

Sample Number	2484011-1						
Sampled Date	Aug 01, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_005_2559						
Plot	M-07		Site ETK EMS ASIA PRODUCTIONS COMPANY LIMITED				
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Total Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 025/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tuntong วิศกรสุราษฎร์ 323-4-0022, Patrapol Sawangpatam วิศกรสุราษฎร์ 3204-4-0002

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Technical Management

Savitree N.
Savitree Nongam
Manager
วิศกรสุราษฎร์ 3204-4-0007

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
วิศกรสุราษฎร์ 3204-4-0004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484011
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3061855-3

Page 1 of 1

Sample Number	2484011-1						
Sample Date	Aug 01, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_005_2559	Plot	M-07	Site	ETK EMS ASIA PRODUCTIONS COMPANY LIMITED		
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.18	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 025/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tuntong , Patrapol Sawangpatam

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Technical Management

Savitree N.
Savitree Nongam
Manager
วิศกรสุราษฎร์ 3204-4-0007

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
วิศกรสุราษฎร์ 3204-4-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042

Lot ID: 2484012
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 305357-1

Page 1 of 2

Sample Number	2484012-1
Sampled Date	Aug 01, 2024 3:50 PM
Sample Description	Wastewater
Contract ID	L_ESIE_014_2551 Plot M-04 Site Tha Const & Building Manufacturing P.C.
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	32.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
COD	mg/L	1.5	2.5	113	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
Color (at Original pH)	ADMI		5	55	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
Color (at pH 7.0)	ADMI		5	54	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
Oil & Grease	mg/L		3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong
pH (on site) *				7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 520 D	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Senior (3)
โทรศัพท์ 0-3304-9445

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 0-3304-9442

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042

Lot ID: 2484012
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 305357-1

Page 2 of 2

Sample Number	2484012-1
Sampled Date	Aug 01, 2024 3:50 PM
Sample Description	Wastewater
Contract ID	L_ESIE_014_2551 Plot M-04 Site Tha Const & Building Manufacturing P.C.
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Temperature *	Degree C			30.4	≤45	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	300	≤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	19	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Ekachai Tunong รหัสประจำตัว 3-323-0022, Petaraporn Senangiam รหัสประจำตัว 3-204-0002

Result :
LOD : Level of Detection
* : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
Analyte(s) marked * does not include in scope of Accreditation ISO/IEC 17025.
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Senior (3)
โทรศัพท์ 0-3304-9445

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 0-3304-9442

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009

Lot ID: 2484012
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063857-2

Page 1 of 2

Sample Number	2484012-1
Sampled Date	Aug 01, 2024 3:50 PM
Sample Description	Wastewater
Contract ID	L_ESIE_014_2551 Plot M-04 Site Tha Const & Building Manufacturing P.C.
Date Analysis Commenced	Aug 03, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3122 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3135 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3135 B, 3030 F	Bangkok
Highest Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsam
Manager
โทรศัพท์ 0-204-0007

Approved by

Kanokorn Anel
Kanokorn Anel
Assistant General Manager
โทรศัพท์ 0-204-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009

Lot ID: 2484012
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063857-2

Page 2 of 2

Sample Number	2484012-1
Sampled Date	Aug 01, 2024 3:50 PM
Sample Description	Wastewater
Contract ID	L_ESIE_014_2551 Plot M-04 Site Tha Const & Building Manufacturing P.C.
Date Analysis Commenced	Aug 03, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property	Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3175 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Ekachai Tunong รหัสประจำตัว 3-323-0022, Petaraporn Senangiam รหัสประจำตัว 3-204-0002

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

Savitree N.
Savitree Nongsam
Manager
โทรศัพท์ 0-204-0007

Approved by

Kanokorn Anel
Kanokorn Anel
Assistant General Manager
โทรศัพท์ 0-204-0004

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0009
Lot ID: 2484016
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306381-2

Page 1 of 1

Sample Number	2484016-1						
Sampled Date	Aug 01, 2024 9:45 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE-027-2563	Pilot	M-20		Site	Lichond Mould Technology (Thailand) Co. Ltd	
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	<0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	<0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.22	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunlong มัคคุเทศน์ 323-0022, Pattarapol Sawangjiam มัคคุเทศน์ 324-0002

Remark :
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Technical Management

Savitree N.
Savitree Nongsangam
Manager
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Approved by

Karekorn Jari
Karekorn Jari
Assistant General Manager
มัคคุเทศน์ 324-0004

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P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0009
Lot ID: 2484016
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306381-3

Page 1 of 1

Sample Number	2484016-1						
Sampled Date	Aug 01, 2024 9:45 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE-027-2563	Pilot	M-20		Site	Lichond Mould Technology (Thailand) Co. Ltd	
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.57	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunlong มัคคุเทศน์ 323-0022, Pattarapol Sawangjiam มัคคุเทศน์ 324-0002

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0042
Lot ID: 2484021
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306389-1

Page 1 of 2

Sample Number	2484021-1						
Sampled Date	Aug 01, 2024 11:00 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE-196-2550	Pilot	M-27.28		Site	Sunlit (Thailand) Co. Ltd	
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	22.4	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D, part 4500 -O-C	Rayong
COD	mg/L	15	25	60	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMC	-	5	45	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMC	-	5	41	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 C (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis Manual, Environmental Engineering Association of Thailand, 4th ed., 2001	Rayong
Oil & Grease	mg/L	-	5	43	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Chonticha Subongkroh
Chonticha Subongkroh
Senior Manager
มัคคุเทศน์ 323-0949

Approved by

Dej Changchon
Dej Changchon
Senior Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0042
Lot ID: 2484021
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306389-1

Page 2 of 2

Sample Number	2484021-1						
Sampled Date	Aug 01, 2024 11:00 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE-196-2550	Pilot	M-27.28		Site	Sunlit (Thailand) Co. Ltd	
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.1	≤45	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	224	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 -C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Ekachai Tunlong มัคคุเทศน์ 323-0022, Pattarapol Sawangjiam มัคคุเทศน์ 324-0002

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Technical Management

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Chonticha Subongkroh
Senior Manager
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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2484021
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 305.950-2

Page 1 of 2

Sample Number : 2484021-1
Sampled Date : Aug 01, 2024 11:00 AM
Sample Description : Wastewater
Contract ID : L_ESIE_156_2550 Plot : M-27.28 Site : Sunkit (Thailand) Co. Ltd
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0013	0.0055	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0063	0.0095	0.16	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0055	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nongam
Manager
มือถือ 09-2694-0007

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
มือถือ 09-2694-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2484021
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 305.950-3

Page 1 of 2

Sample Number : 2484021-1
Sampled Date : Aug 01, 2024 11:00 AM
Sample Description : Wastewater
Contract ID : L_ESIE_156_2550 Plot : M-27.28 Site : Sunkit (Thailand) Co. Ltd
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.05	0.2	0.7	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F, 4500 F.1	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment system in Industrial Estates

Sampling By : Ekachai Tuntong , Pattarapol Sawangjakam

Remark :
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LOQ : Limit of Quantification
LOR : Limit of Reporting
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Approved by

Savitree N.

Savitree Nongam
Manager

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2484021
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 305.950-2

Page 2 of 2

Sample Number : 2484021-1
Sampled Date : Aug 01, 2024 11:00 AM
Sample Description : Wastewater
Contract ID : L_ESIE_156_2550 Plot : M-27.28 Site : Sunkit (Thailand) Co. Ltd
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.45	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment system in Industrial Estates

Sampling By : Ekachai Tuntong , Pattarapol Sawangjakam

Remark :
LOD : Limit of Detection
LOQ : Limit of Quantification
LOR : Limit of Reporting
Analyte(s) marked * : are not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Savitree N.

Savitree Nongam
Manager
มือถือ 09-2694-0007

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
มือถือ 09-2694-0004

Results apply to the sample(s) as submitted, unless the sample(s) was/were modified in any form without written consent from the laboratory.
All laboratory data are subject to verification and may be subject to change without notice.
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E-MAIL: info@alsglobal.com

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 2484022
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 306.990-1

Page 1 of 2

Sample Number : 2484022-1
Sampled Date : Aug 01, 2024 10:00 AM
Sample Description : Wastewater
Contract ID : L_ESIE_112_2550 Plot : M-18.19 Site : OT Road Accessories Limited
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	56.2	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 5210 B.1	Rayong
COD	mg/L	1.5	25	168	≤750	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	42	≤600	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	40	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN, 4500 CN.1	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater & Effluent Manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L		3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 pH, 4500 pH.1	Rayong

Technical Management

Chontichak

Chontichak Subongthong
Scientist (3)
มือถือ 09-2694-9949

Approved by

D. Chongthong

D. Chongthong
Senior Manager
มือถือ 09-2694-9942

Results apply to the sample(s) as submitted, unless the sample(s) was/were modified in any form without written consent from the laboratory.
All laboratory data are subject to verification and may be subject to change without notice.
SPPS-104 Phrahitthanan 40 Phrahitthanan Rd., Khlong Phrahitthanan, Chatuchak District, Bangkok 10310 Thailand TEL: +66 2 2760 1808 FAX: +66 2 2760 1897
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2484022
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063900-1

Page 2 of 2

Sample Number	2484022-1					Page 1 of 2	
Sampled Date	Aug 01, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_112_2550 Plot M-18,19 Site Off Road Accessories Limited.						
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	Degree C			33.5	≤45	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	296	≤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	24	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Ekachai Tunong มินธุมาณี 3-323-0-0022 , Patanaporn Savangsatam มินธุมาณี 3-204-0-0002

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte marked "L" were 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

Chontichak
Chontichak Suongchok
Scientist (3)
มินธุมาณี 3-323-0-9449

Approved by

Dei Changchon
Dei Changchon
Senior Manager
มินธุมาณี 3-204-0-9442

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E: info@alsglobal.com

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10/14/2024



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484022
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063900-2

Page 1 of 1

Sample Number	2484022-1						
Sampled Date	Aug 01, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_112_2550 Plot M-18,19 Site Off Road Accessories Limited.						
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.010	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.0003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongnang
Manager
มินธุมาณี 3-204-0-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
มินธุมาณี 3-204-0-0004

Results apply to the sampling as performed, unless the sampling was conducted by ALS. No part of this report may be reproduced or used in any form without written permission from the laboratory.
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484022
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063900-2

Page 2 of 2

Sample Number	2484022-1						
Sampled Date	Aug 01, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_112_2550		Plot	M-18,19		Site	Off Road Accessories Limited.
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Thiobarbituric Acid *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Ekachai Tunong มินธุมาณี 3-323-0-0022 , Patanaporn Savangsatam มินธุมาณี 3-204-0-0002

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte marked "L" were 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

Savitree N.
Savitree Nongnang
Manager
มินธุมาณี 3-204-0-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
มินธุมาณี 3-204-0-0004

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484022
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063900-3

Page 1 of 1

Sample Number	2484022-1						
Sampled Date	Aug 01, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_112_2550		Plot	M-18 19	Site	Off Road Accessories Limited	
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.77	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	1.0	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Ekachai Tunong , Patanaporn Savangsatam

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
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Technical Management

Savitree N.
Savitree Nongnang
Manager
มินธุมาณี 3-204-0-0007

Approved by

Savitree N.
Savitree Nongnang
Manager
มินธุมาณี 3-204-0-0004

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484023
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063901-1

Page 1 of 2

Sample Number	2484023-1						
Sampled Date	Aug 01, 2024 10 10 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_200_2550	Plot	M-17	Site	Yowon Electronic Co Ltd		
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	102	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, vol 4-00 O-G	Rayong
COD	mg/L	1.5	25	254	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADNU	-	5	105	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Color (at pH 7.0)	ADNU	-	5	102	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4520-CN (C-E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	1	<1	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5550 B	Rayong
pH (on site) *	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4550-H (B)	Rayong

Technical Management

Chontichak
Chontichak Subongkroh
Scientist (3)
มือถือ 09-323-9949

Approved by

D. Chongchun
Dej Chongchun
Senior Manager
มือถือ 09-323-9942

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484023
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063901-1

Page 2 of 2

Sample Number	2484023-1						
Sampled Date	Aug 01, 2024 10 10 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_200_2550	Plot	M-17	Site	Yowon Electronic Co. Ltd		
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation Standards (APHA / USEPA). Yellow, a lot of odour, some solid and turbid						
Physical Property							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.11	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 U	Rayong
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Kyong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	260	≤1000	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	15	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : อภิชาติ ทูลทอง วิจัยและงาน 3-323-9-0022, ปัทมาพร เสวงงามงาม วิจัยและงาน 3-204-9-0002

Remark

- LOD : Limit of Detection
- "F" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
- Analyte(s) marked "F" were not included in issue 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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Chontichak Subongkroh
Scientist (3)
มือถือ 09-323-9949

Approved by

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Dej Chongchun
Senior Manager
มือถือ 09-323-9942

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484023
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063901-2

Page 3 of 2

Sample Number	2484023-1						
Sampled Date	Aug 01, 2024 10:10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_200_2550	Plot	M-17	Site	Yowon Electronic Co. Ltd		
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 D-3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.15	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongkham
Manager
มือถือ 09-323-9949

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
มือถือ 09-323-9942

Results apply to the sample as submitted, unless the sample was collected by ALS. No part of this report may be reproduced or stored without written consent from the laboratory. ALS Laboratory Group (Thailand) Private Limited. This report is the intellectual property of ALS.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484023
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063901-2

Page 2 of 2

Sample Number	2484023-1						
Sampled Date	Aug 01, 2024 10:10 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE-200-2550		Plot	M 17	Site	Yowon Electronic Co., Ltd.	
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA). Yellow, a lot of odour, some solid and turbid.						
Physical Property							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Tetravalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B-3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : อภิชาติ ทูลทอง วิจัยและงาน 3-323-9-0022, ปัทมาพร เสวงงามงาม วิจัยและงาน 3-204-9-0002

Remark

LOD : Limit of Detection
"F" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked "F" were 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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มือถือ 09-323-9949

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484023
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063901-3

Page 1 of 1

Sample Number : 2484023-1
Sampled Date : Aug 01, 2024 10:10 AM
Sample Description : Wastewater
Contract ID : L_ESIE_200_2550 Plot M-17 Site Yozwon Electronic Co. Ltd
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.24	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4503 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong, Pattarapol Sawangjatan

Remark :
LOD : Limit of Detection
"x" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484025
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063904-1

Page 1 of 2

Sample Number : 2484025-1
Sampled Date : Aug 01, 2024 3:40 PM
Sample Description : Wastewater
Contract ID : L_ESIE_010_2551 Plot M-08 Site ETK EPS Asia Production Ltd
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	56.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 5210 C, 5210 D, 5	Rayong
COD	mg/L	1.5	25	194	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5200 D	Rayong
Color (at Original pH)	ADMC	-	5	68	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMC	-	5	67	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2110 F	Rayong
Cyanide as HCN	mg/L	0.031	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9200 B	Rayong
pH (on site) *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 -H (E)	Rayong

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484025
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063904-1

Page 2 of 2

Sample Number : 2484025-1
Sampled Date : Aug 01, 2024 3:40 PM
Sample Description : Wastewater
Contract ID : L_ESIE_010_2551 Plot M-08 Site ETK EPS Asia Production Ltd
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.13	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	280	≤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	32	≤280	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong, Pattarapol Sawangjatan

Remark :
LOD : Limit of Detection
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Analyte(s) marked "x" are not included in scope of Accreditation ISO/IEC 17025
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484025
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063904-2

Page 1 of 2

Sample Number : 2484025-1
Sampled Date : Aug 01, 2024 3:40 PM
Sample Description : Wastewater
Contract ID : L_ESIE_010_2551 Plot M-08 Site ETK EPS Asia Production Ltd
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.003	0.005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.003	0.005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.003	0.005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.003	0.005	0.009	≤0.9	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.003	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.003	0.005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484025
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3063994-2

Page 2 of 2

Sample Number	2484025-1					
Sampled Date	Aug 01, 2024 3:40 PM					
Sample Description	Wastewater					
Contract ID	L-ESIE_010_2551					
Plot	M-08					
Site	ETX EPS Asia Production Ltd.					
Date Analysis Commenced	Aug 01, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of colour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong vtt@uaw.ac.th 323-0022, Pattarapod Sawangjatan vtt@uaw.ac.th 204-0002

Remark :
LOD : Limit of Detection
* : lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
Analyte(s) marked * : were 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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Result apply to the sample(s) as submitted, unless the sample(s) was/were subjected to any form of manipulation or any form of sample storage before the analysis.
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484025
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3063994-3

Page 1 of 1

Sample Number	2484025-1					
Sampled Date	Aug 01, 2024 3:40 PM					
Sample Description	Wastewater					
Contract ID	L-ESIE_010_2551					
Plot	M-08					
Site	ETX EPS Asia Production Ltd.					
Date Analysis Commenced	Aug 01, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of colour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	0.10	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing						
Fluoride as F *	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 F (2)

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong vtt@uaw.ac.th 323-0022, Pattarapod Sawangjatan vtt@uaw.ac.th 204-0002

Remark :
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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484026
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3063906-1

Page 2 of 2

Sample Number	2484026-1					
Sampled Date	Aug 01, 2024 3:30 PM					
Sample Description	Wastewater					
Contract ID	L-ESIE_014_2553					
Plot	M-05					
Site	KC Altech (Thailand) Co. Ltd					
Date Analysis Commenced	Aug 01, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of colour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	0.09	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 B
COD	mg/L	15	25	96	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D
Color (at Crystal ph)	ADMI	-	5	34	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Color (at pH 7.0)	ADMI	-	5	71	≤800	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
pH (on site) *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)

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Result apply to the sample(s) as submitted, unless the sample(s) was/were subjected to any form of manipulation or any form of sample storage before the analysis.
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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484026
Date Received : Aug 01, 2024
Date Reported : Aug 06, 2024
Report Number : 3063906-1

Page 2 of 2

Sample Number	2484026-1					
Sampled Date	Aug 01, 2024 3:30 PM					
Sample Description	Wastewater					
Contract ID	L-ESIE_014_2553					
Plot	M-05					
Site	KC Altech (Thailand) Co. Ltd					
Date Analysis Commenced	Aug 01, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of colour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
Phenol	mg/L	0.005	0.01	0.06	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	244	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong vtt@uaw.ac.th 323-0022, Pattarapod Sawangjatan vtt@uaw.ac.th 204-0002

Remark :
LOD : Limit of Detection
* : lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
Analyte(s) marked * : were not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by
Chontichak
Chontichak Subongkroh
Senior Manager
vtt@uaw.ac.th 323-0949

Result apply to the sample(s) as submitted, unless the sample(s) was/were subjected to any form of manipulation or any form of sample storage before the analysis.
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E-mail : info@alsglobal.com, sales@alsglobal.com, support@alsglobal.com

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484026
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063906-2

Page 1 of 2

Sample Number : 2484026-1
Sampled Date : Aug 01, 2024 3:30 PM
Sample Description : Wastewater
Contract ID : L-ESIE-014-2553 Plot M-06 Site KC Atech (Thailand) Co Ltd
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment + preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

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Manager
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Approved by

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Kanokorn Anet
Assistant General Manager
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112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484026
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063906-2

Page 1 of 2

Sample Number : 2484026-1
Sampled Date : Aug 01, 2024 3:30 PM
Sample Description : Wastewater
Contract ID : L-ESIE-014-2553 Plot M-06 Site KC Atech (Thailand) Co Ltd
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment + preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.001	0.005	3.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunong msdusar@1204-1-0002, Pattaraporn Sawangjaleam msdusar@1204-1-0002

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were 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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Approved by

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484026
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063906-3

Page 1 of 2

Sample Number : 2484026-1
Sampled Date : Aug 01, 2024 3:30 PM
Sample Description : Wastewater
Contract ID : L-ESIE-014-2553 Plot M-06 Site KC Atech (Thailand) Co Ltd
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment + preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.10	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (B)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunong msdusar@1204-1-0002, Pattaraporn Sawangjaleam

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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Approved by

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Savitree Nongsang
Manager

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0002
Lot ID: 2484028
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063911-1

Page 1 of 2

Sample Number : 2484028-1
Sampled Date : Aug 01, 2024 2:50 PM
Sample Description : Wastewater
Contract ID : L-ESIE-140-2550 Plot M-34 Site TOGO Sesakanya (Thailand) Co Ltd
Date Analysis Commenced : Aug 01, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment + preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, cold and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	181	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 O C	Rayong
COD	mg/L	1.5	25	440	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
Color (at Original pH)	ADMC	-	5	117	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 210 F	Rayong
Color (at pH 7.0)	ADMC	-	5	115	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 C (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 15th ed. 2001	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484028
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063911-1

Page 1 of 2

Sample Number	2484028-1						
Sampled Date	Aug 01, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_140_2550 Plot M-34 Site TOGO Senakusyo (Thailand) Co.,Ltd						
Date Analysis Commenced	Aug 01, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.27	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2530 D	Rayong
Temperature *	Degree C	+	+	30.9	≤45	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	172	≤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	88	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunjong มัคคณาวิทย์ 323-4-0022, Pattarapol Sawangjarn มัคคณาวิทย์ 3204-4-0002

Remark:
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Technical Management

Chontichak
Chonticha Suwongchok
Scientist (3)
มัคคณาวิทย์ 323-4-0002

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มัคคณาวิทย์ 323-4-0042

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484028
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063911-2

Page 2 of 2

Sample Number	2484028-1						
Sampled Date	Aug 01, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_140_2550 Plot M-34 Site TOGO Senakusyo (Thailand) Co.,Ltd						
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.14	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	0.03	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.52	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunjong มัคคณาวิทย์ 323-4-0022, Pattarapol Sawangjarn มัคคณาวิทย์ 3204-4-0002

Remark:
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Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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Technical Management

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Savitree Nisangam
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Approved by

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Kanokorn Anet
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484028
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063911-2

Page 1 of 2

Sample Number	2484028-1						
Sampled Date	Aug 01, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_140_2550		Plot	M-34	Site	TOGO Senakusyo (Thailand) Co., Ltd	
Date Analysis Commenced	Aug 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.15	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.06	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunjong มัคคณาวิทย์ 323-4-0022, Pattarapol Sawangjarn มัคคณาวิทย์ 3204-4-0002

Technical Management
Savitree N.
Savitree Nisangam
Manager
มัคคณาวิทย์ 3204-4-0007

Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484028
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063911-3

Page 1 of 1

Sample Number	2484028-1						
Sampled Date	Aug 01, 2021 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_140_2550		Plot	M-34	Site	TOGO Senakusyo (Thailand) Co.,Ltd	
Date Analysis Commenced	Aug 02, 2021						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of colour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.35	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunjong มัคคณาวิทย์ 323-4-0022, Pattarapol Sawangjarn มัคคณาวิทย์ 3204-4-0002

Remark:
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Technical Management

Savitree N.
Savitree Nisangam
Manager
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Approved by

Kanokorn Anet
Kanokorn Anet
Assistant General Manager
มัคคณาวิทย์ 3204-4-0004

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2484029
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063914-1

Page 1 of 2

Sample Number	2484029-1
Sampled Date	Aug 01, 2024 3:00 PM
Sample Description	Wastewater
Contract ID	L_ESIE_177_2550 Plot M-35 Site TOGO Sesakunyo (Thailand) Co., Ltd.
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / APWA / USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, sub 4500-51 G	Rayong
COD	mg/L	1.5	25	47	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5200 D	Rayong
Color (at Original pH)	ADMU	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMU	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CH, C	Rayong
Formaldehyde	mg/L	0.01	0.1	<0.1	≤1	Wastewater Analysis Manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	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

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3323-9449

Approved by

D. Chantana
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โทรศัพท์ 3323-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2484029
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063914-1

Page 2 of 2

Sample Number	2484029-1
Sampled Date	Aug 01, 2024 3:00 PM
Sample Description	Wastewater
Contract ID	L_ESIE_177_2550 Plot M-35 Site TOGO Sesakunyo (Thailand) Co., Ltd.
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / APWA / USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	35.8	≤45	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	588	≤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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong โทรศัพท์ 3323-94022, Pattaporn Sawangratam โทรศัพท์ 3323-94002

Notes :
LOD = Limit of Detection
LOQ = Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
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Technical Management

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Chonticha Subongkroh
Scientist (3)
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Approved by

D. Chantana
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484029
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063914-2

Page 1 of 2

Sample Number	2484029-1
Sampled Date	Aug 01, 2024 3:00 PM
Sample Description	Wastewater
Contract ID	L_ESIE_177_2550 Plot M-35 Site TOGO Sesakunyo (Thailand) Co., Ltd.
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / APWA / USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0006	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.15	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3050 C-B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0037	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongkham
Manager
โทรศัพท์ 2760-3000

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2484029
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063914-2

Page 2 of 2

Sample Number	2484029-1
Sampled Date	Aug 01, 2024 3:00 PM
Sample Description	Wastewater
Contract ID	L_ESIE_177_2550 Plot M-35 Site TOGO Sesakunyo (Thailand) Co., Ltd.
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / APWA / USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tunlong โทรศัพท์ 3323-94022, Pattaporn Sawangratam โทรศัพท์ 3323-94002

Notes :
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Technical Management

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Approved by

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Kanokorn Anek
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484029
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3063914.3

Page 1 of 1

Sample Number : 2484029-1
Sampled Date : Aug 01, 2024 3:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_177_2550 Plot : M-35 Site : TOGO Soda-surya (Thailand) Co., Ltd
Date Analysis Commenced : Aug 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.10	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.05	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Ekkochoi Tuntang , Pattaporn Sawangsom

Remark :
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Approved by

Savitree N.
Savitree Nangrang
Manager

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484010
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063854-1

Page 1 of 1

Sample Number : 2484010-1
Sampled Date : Aug 06, 2024 2:21 PM
Sample Description : Wastewater
Contract ID : L_ESIE_056_2550 Plot : M-11 Site : Golsene Sanki (Thailand) Co., Ltd
Location : Factory 1
Date Analysis Commenced : Aug 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.7	≤45	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	-	-	112	≤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	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Suphanna Sakul Wongsawat +323-4-9446, Pattaporn Sawangsom +323-4-9446

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LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484010
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063854-1

Page 1 of 1

Sample Number : 2484010-1
Sampled Date : Aug 06, 2024 2:21 PM
Sample Description : Wastewater
Contract ID : L_ESIE_056_2550 Plot : M-11 Site : Golsene Sanki (Thailand) Co., Ltd
Location : Factory 1
Date Analysis Commenced : Aug 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	-	2.0	≤2.0	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	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADNU	-	-	12	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADNU	-	-	11	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CH (C, F)	Rayong
Oil & Grease	mg/L	-	-	<3	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 H (H)	Rayong

Technical Management

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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484010
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063854-2

Page 1 of 1

Sample Number : 2484010-1
Sampled Date : Aug 06, 2024 2:21 PM
Sample Description : Wastewater
Contract ID : L_ESIE_056_2550 Plot : M-11 Site : Golsene Sanki (Thailand) Co., Ltd
Location : Factory 1
Date Analysis Commenced : Aug 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

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112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No. 0042

Lot ID: 2484010
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063854-2

Page 2 of 2

Sample Number	2484010-1						Page 3 of 3
Sampled Date	Aug 06, 2024 2:21 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_056_2550	Plot	M-11	Site	Girdesee Sanki (Thailand) Co. Ltd.		
Location	Factory 1						
Date Analysis Commenced	Aug 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.0009	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphanat Sakulchai m10uawaf 1-323-a-0021, Pattarapol Sawangjansom m10uawaf 1-204-a-0002

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Technical Management

Sawitree N.

Sawitree Nongnang
Manager

m10uawaf 1-104-a-0007

Approved by

D. Changchon

Dej Changchon
Senior Manager

m10uawaf 1-323-a-9442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No. 0042

Lot ID: 2484014
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063859-1

Page 2 of 2

Sample Number	2484014-1						Page 1 of 1
Sampled Date	Aug 06, 2024 2:07 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_105_2550	Plot	M-02	Site	NK-Aro (Thailand) Co., Ltd		
Date Analysis Commenced	Aug 06, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	18.7	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 DO	Rayong
COD	mg/L	1.5	25	61	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 D	Rayong
Color (at Original pH)	ADU			43	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
Color (at pH 7.0)	ADU		5	41	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, D)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
Oil & Grease	mg/L			3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
pH (on site) *				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

Technical Management

Photichana S.

Photichana Seda
Scientist (4)

m10uawaf 1-323-a-9446

Approved by

D. Changchon

Dej Changchon
Senior Manager

m10uawaf 1-323-a-9442

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No. 0009

Lot ID: 2484010
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063854-3

Page 1 of 1

Sample Number	2484010-1							Page 1 of 1
Sampled Date	Aug 06, 2024 2:21 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_056_2550	Plot	M-11	Site	Girdesee Sanki (Thailand) Co. Ltd.			
Location	Factory 1							
Date Analysis Commenced	Aug 07, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.23	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (2)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphanat Sakulchai m10uawaf 1-323-a-0021, Pattarapol Sawangjansom m10uawaf 1-204-a-0002

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

Approved by

Sawitree N.

Sawitree Nongnang
Manager

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No. 0042

Lot ID: 2484014
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063859-1

Page 1 of 1

Report Summary: ESR1							Page 2 of 3
Sample Number	2484014-1						
Sampled Date	Aug 06, 2024 2:07 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_105_2550	Plot	M-02	Site	NK Axis (Thailand) Co., Ltd		
Date Analysis Commenced	Aug 06, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510 C	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	176	≤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	10	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphanat Sakulchai m10uawaf 1-323-a-0021, Pattarapol Sawangjansom m10uawaf 1-204-a-0002

Remarks:
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Technical Management

Photichana S.

Photichana Seda
Scientist (4)

m10uawaf 1-323-a-9446

Approved by

D. Changchon

Dej Changchon
Senior Manager

m10uawaf 1-323-a-9442

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484014
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063859-2

Page 1 of 2

Sample Number	2484014-1						
Sampled Date	Aug 06, 2024 2:07 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_105_2550	Plot	M-02	Site	NK-Axis (Thailand) Co., Ltd.		
Date Analysis Commenced	Aug 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment -						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0008	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3050 C-8	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsom
Manager
ms0000001-1-204-0-0007

Approved by

Kanokorn Anich
Assistant General Manager
ms0000001-1-204-0-0004



Analysis / Test Report

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484014
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063859-2

Page 2 of 2

Sample Number	2484014-1						
Sampled Date	Aug 06, 2024 2 07 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_105_2550	Plot	M-02	Site	NK-Axis (Thailand) Co., Ltd.		
Date Analysis Commenced	Aug 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA - USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Suphanak Sakul, ms0000001-1-323-0-0021, Pattarapol Sawangjittom, ms0000001-1-204-0-0002

Remark :
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* : Lower than LOQ (Limit of Quantitation) / LLOQ (Limit of Reporting)
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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Savitree N.
Savitree Nongsom
Manager
ms0000001-1-204-0-0007

Approved by

Kanokorn Anich
Assistant General Manager
ms0000001-1-204-0-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2484014
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063859-3

Page 1 of 2

Sample Number	2484014-1						
Sampled Date	Aug 06, 2024 2:07 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_105_2550	Plot	M-02	Site	NK-Axis (Thailand) Co.,Ltd.		
Date Analysis Commenced	Aug 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment -						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.10	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Suphanak Sakul, ms0000001-1-323-0-0021, Pattarapol Sawangjittom

Remark :
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Approved by

Savitree N.
Savitree Nongsom
Manager



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2484019
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063865-1

Page 1 of 2

Sample Number	2484019-1						
Sampled Date	Aug 06, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2555	Plot	M-01	Site	NK AXIS PACKAGING CO., Ltd.		
Date Analysis Commenced	Aug 06, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment -						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	20.5	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 C-D G	Rayong
COD	mg/L	1.5	25	76	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADME	-	5	40	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5120 F	Rayong
Color (at pH 7.0)	ADME	-	5	39	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2564	Rayong
Oil & Grease	mg/L	-	3	1	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchanan S.
Photchanan Seedi
Scientist (S)
ms0000001-1-323-0-9446

Approved by

Dej Changchon
Senior Manager
ms0000001-1-323-0-9442



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2484019
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063866-1

Sample Number : 2484019-1
Sampled Date : Aug 06, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2565 Plot : M 01 Site : HK AXIS PACKAGING Co., Ltd.
Date Analysis Commenced : Aug 06, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phend	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5500 D	Rayong
Temperature *	Degree C	-	-	32.9	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 1905 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	-	116	≤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	-	-	22	≤700	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Suphanak Sakul, รหัสประจำตัว 3-323-1-0021, Pattarapol Sawangjittam รหัสประจำตัว 3-204-1-0002

Remark :
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Technical Management

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Photchan Saeas
Scientist (C)
รหัสประจำตัว 3-323-1-0446

Approved by

De Changchon
Senior Manager
รหัสประจำตัว 3-323-1-0442

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484019
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063866-2

Sample Number : 2484019-1
Sampled Date : Aug 06, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2565 Plot : M 01 Site : HK AXIS PACKAGING Co., Ltd.
Date Analysis Commenced : Aug 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Asenic	mg/L	0.003	0.005	0.008	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Barium	mg/L	0.003	0.005	0.14	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Cadmium	mg/L	0.003	0.005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Copper	mg/L	0.003	0.005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Lead	mg/L	0.003	0.005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Manganese	mg/L	0.003	0.005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongniam
Manager
รหัสประจำตัว 3-204-1-0007

Approved by

Kanokorn Anuk
Assistant General Manager
รหัสประจำตัว 3-204-1-0004

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484019
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063866-2

Sample Number : 2484019-1
Sampled Date : Aug 06, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2565 Plot : M 01 Site : HK AXIS PACKAGING Co., Ltd.
Date Analysis Commenced : Aug 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.001	0.005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.003	0.005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Selenium	mg/L	0.003	0.005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Suphanak Sakul, รหัสประจำตัว 3-323-1-0021, Pattarapol Sawangjittam รหัสประจำตัว 3-204-1-0002

Remark :
LOD : Limit of Detection
"x" : 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

Savitree N.
Savitree Nongniam
Manager
รหัสประจำตัว 3-204-1-0007

Approved by

Kanokorn Anuk
Assistant General Manager
รหัสประจำตัว 3-204-1-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2484019
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063866-3

Sample Number : 2484019-1
Sampled Date : Aug 06, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2565 Plot : M 01 Site : HK AXIS PACKAGING Co., Ltd.
Date Analysis Commenced : Aug 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 G, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Suphanak Sakul, รหัสประจำตัว 3-323-1-0021, Pattarapol Sawangjittam รหัสประจำตัว 3-204-1-0002

Remark :
LOD : Limit of Detection
"x" : lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Savitree N.
Savitree Nongniam
Manager
รหัสประจำตัว 3-204-1-0007

Approved by

Kanokorn Anuk
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484020
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063869-1

Page 1 of 2

Sample Number	2484020-1							File 1 of 2
Sampled Date	Aug 06, 2024 1:49 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_002_2565	Plot	M 22		Site	NK AXIS PACKAGING Co., Ltd		
Date Analysis Commenced	Aug 06, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	23.6	≤500	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	70	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	ADME	-	5	35	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at pH 7.0)	ADME	-	5	32	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CH (C, E)	Rayong	
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong	
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (8)	Rayong	

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (A)
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Approved by

D. Chongchon

D. Chongchon
Senior Manager
โทรศัพท์ 0-323-9-6442

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484020
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063869-1

Page 2 of 2

Sample Number	2484020-1							Page 2 of 2
Sampled Date	Aug 06, 2024 1:49 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_002_2565		Plot H 22		Site: NK AXIS PACKAGING Co., Ltd.			
Date Analysis Commenced	Aug 06, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.03	<1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	33.3	<45	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	216	<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	24	<200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphanak Sakulwit 0-323-9-0021, Pattarapol Sawangjankom 0-323-9-0022

Remarks :
LOD : Limit of Detection
* " " : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * : 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

Photchanas S.

Photchanas Seeda
Scientist (A)
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Approved by

D. Chongchon

D. Chongchon
Senior Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484020
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063869-2

Page 1 of 2

Sample Number	2484020-1							Page 1 of 2
Sampled Date	Aug 06, 2024 1:49 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_002_2565		Plot	M 22	Site	NK-AXIS PACKAGING Co.,Ltd		
Date Analysis Commenced	Aug 07, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.0003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3050 C-1	Bangkok	
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Technical Management

Savitree N.

Savitree Nongkum
Manager
โทรศัพท์ 0-201-9-0007

Approved by

Karnkorn Anek

Karnkorn Anek
Assistant General Manager
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Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2484020
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063869-2

Page 2 of 2

Sample Number	2484020-1							Page 2 of 2
Sampled Date	Aug 06, 2024 1:49 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_002_2565 Plot H 22							
Site	NK-AXIS PACKAGING Co., Ltd.							
Date Analysis Commenced	Aug 07, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property								
Yellow, a lot of odour, solid and some turbid								
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphanak Sakulwit 0-323-9-0021, Pattarapol Sawangjankom 0-323-9-0022

Remarks :
LOD : Limit of Detection
* " " : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * : 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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Approved by

Karnkorn Anek

Karnkorn Anek
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009

Lot ID: 2484020
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063069-3

Sample Number	2484020-1						Page 1 of 1
Sampled Date	Aug 06, 2024 1:49 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_002_2555	Plot	M.22	Site			NK-AXIS PACKAGING Co. Ltd
Date Analysis Commenced	Aug 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment.						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.41	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F	Singdat
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (C)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphantak Sakulit, Pataraop Saravangnam
Remarks :
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte marked "A" are not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025

Approved by

Savitree N.
Savitree Nongniam
Manager

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Analysis / Test Report

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042

Lot ID: 2484027
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063069-1

Sample Number	2484027-1						Page 2 of 2
Sampled Date	Aug 06, 2024 2:31 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_076_2550	Plot	E-28.29	Site	Kellogg (Thailand) Ltd		
Date Analysis Commenced	Aug 06, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment.						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Royong
Temperature *	Degree C			36.3	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Royong
Total Dissolved Solids Dried at 180 degree C	mg/L		5	1112	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Royong
Total Suspended Solids Dried at 103-105 degree C	mg/L		5	6	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Royong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Suphantak Sakulit, Pataraop Saravangnam TEL: +66 0 2760 3020 FAX: +66 0 2760 3197

Remarks :
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte marked "A" are not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

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Approved by

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Technical Management

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2484027-1					Page 1 of 2
Sampled Date	Aug 06, 2024 2:31 PM					
Sample Description	Wastewater					
Contract ID	L_ESIE_076_2550	Plot	E-28.29	Site	Kellogg (Thailand) Ltd	
Date Analysis Commenced	Aug 07, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment -					
Physical Property	Yellow, some odour, solid and no turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Arsenic	mg/L	0.0003	0.0005	<0.0005	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F
Copper	mg/L	0.0003	0.0005	0.0007	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3120 B, 3030 F

Technical Management

Savitree N.
Savitree Nongniam
Manager
TEL: +66 0 2760 3020

Approved by

K. Anet
Kannokorn Anet
Assistant General Manager
TEL: +66 0 2760 3197

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2484027
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063909-2

Page 2 of 2

Sample Number	Z49-9327-3		
Sampled Date	Aug 06, 2024 2:31 PM		
Sample Description	Wastewater		
Contract ID	L_ESIF_076_2550	Plot	E-36,29
		Site	Kasikong (Thailand) Ltd.
Date Analysis Commenced	Aug 07, 2024		
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, USEPA)		
Physical Property	Yellow, some odour, solid and not turbid		

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By: Surphanot Sokol (s.sokol@pet.go.th) : 323-4-0021, Pattarapol Sawangatham (p.sawangatham@pet.go.th) : 204-4-0002

Remarks:

- LOD: Limit of Detection
- "u": Lower than LOD (Limit of Quantification) / LOR (Limit of Reporting)
- Analytes marked * if/are not included in scope of Accreditation ISO/IEC 17025

This laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Savitree N.
Savitree Norsangiam
Manager
vnEspanant 7-204 9 0907

Approved by

Kanokkom Anek
Assistant General Manager
matthouand 1-204-4-0004

Results apply to the women's only sub-sample, unless the sampling was divided by A.G. No part of this report may be reproduced in any form without written consent from the Association of A.G. Life-savers Group (England); strongly recommend that this report is not copied or misqu岸 in A.G.

Unit 104 Phatthanasak 43, Phatthanasak Rd., Khwaeng Phatthanasak, 10110 Sukhumvit, Bangkok 10110 Thailand PHONE +66 2 2760 3000 FAX +66 2 2760 3197
215 Southwestern Expressway (Hwy 10) #101, Austin, TX 78741 USA AN ALS Limited Company

Life Sciences

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S. Veporny, A. L. G. et al. / S. 157 (2015)



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :

Project Name : Random Check

Project Location: ESIE

TESTING
No 0008
Lot ID: 2484027
Date Received : Aug 06, 2024
Date Reported : Aug 14, 2024
Report Number : 3063909-3

Page 1 of 1

Sample Number	Z494027.1		
Sampled Date	Aug 06 2024 2 31 PM		
Sample Description	Wastewater		
Contract ID	L_ESTIE_076_2550	Plot	E-28.29
		Site	Kellogg (Thailand) Ltd
Date Analysis Commenced	Aug 07, 2024		
Details of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)		
Physical Property	Yellow, some colour, solid and no turbid		

Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.3	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulk , Panzarapol Sirawangjitam

Remarks:

- LOD Limit of Detection
- "c" : lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)

Analysis(es) marked * n/are not included in scope of Accreditation ISO/IEC 17025

This laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by _____

Savitree N.
Savitree Haisangiam
Manager

ADDRESS 104 Phatthanakan 40 Phatthanakan Rd. Khwaeng Phatthanakan Khet Suan Luang Bangkok 10250 Thailand PHONE +66 0 2750 3030 FAX +66 0 2760 3197

LABORATORY EQUIPMENT (INSTRUMENTS) Ltd. An ALS Limited Company

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2496757
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093160-1

Sample Number	2496757-1						
Sampled Date	Sep 03, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_043_2550	Plot	E-01	Site	Copeland (Thailand) Limited		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) Yellow, some odour, solid and no turbid						
Physical Property							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
900 (5 days at 20 Degree C)	mg/L	-	2.0	34.7	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - C & D	Rayong
COD	mg/L	1.5	25	77	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADME	-	5	56	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADME	-	5	51	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	6.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management: Photchanas S. (Photchanas Senda, Scientist (4), มัธยมศึกษา ๓ 323-๓-0028)
Approved by: Det Changchon (Det Changchon, Senior Manager, มัธยมศึกษา ๓ 323-๓-0001)



Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2496757
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093160-1

Sample Number	2496757-1						
Sampled Date	Sep 03, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_043_2550	Plot	E-01	Site	Copeland (Thailand) Limited		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) Yellow, some odour, solid and no turbid						
Physical Property							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 1930 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	732	≤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 102-105 degree C	mg/L	-	5	39	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Woranyoo Chomphleeze 091-060621 +323+0020 , Samart Khumphet 091-060621 +204+0064

Remarks :

- LOD : Limit of Detection
- "C" : lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- mpd(m) : more than reported in scope of measurement 20/10/2567

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

Technical Management: Photchanas S. (Photchanas Senda, Scientist (4), มัธยมศึกษา ๓ 323-๓-0028)
Approved by: Det Changchon (Det Changchon, Senior Manager, มัธยมศึกษา ๓ 323-๓-0001)



Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2496757
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093160-2

Sample Number	2496757-1							Page 1 of 2
Sampled Date	Sep 03, 2024 11:20 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_043_2550	Plot	E-01	Site	Copeland (Thailand) Limited			
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.006	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Boron	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Iodine	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	1.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Technical Management: Chanatt L. (Chanatt L., Assistant General Manager, มัธยมศึกษา ๓ 204-๓-0004)
Approved by: Karak Anek (Karak Anek, Assistant General Manager, มัธยมศึกษา ๓ 204-๓-0004)



Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 2496757
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093160-2

Page 2 of 2

Sample Number	2496757-1									
Sampled Date	Sep 03, 2024 11:20 AM									
Sample Description	Wastewater									
Contract ID	L_ESIE_043_2550	Plot	E-01	Site	Copeland (Thailand) Limited					
Date Analysis Commenced	Sep 04, 2024									
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)									
Physical Property	Yellow, some odour, solid and no turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok			
Nickel	mg/L	0.0003	0.0005	0.52	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Zinc	mg/L	0.003	0.005	0.40	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Warunoy Chomphapee รหัสพนักงาน >323-0-0020 Smart Khumplinee รหัสลูกค้า >204-0-0084

Remarks:

- * LOD = Limit of Detection
- * LOQ = Lower Limit: LOQ (Limit of Quantitation) > LOQ (Limit of Reporting)
- * Analytes marked * might not included in scope of Accreditation ISO/IEC 17025
- * The laboratory has been accepted as an accredited laboratory carrying out the ISO/IEC 17025

Technical Management: Chanatt L. (Chanatt L., Assistant General Manager, มัธยมศึกษา ๓ 204-๓-0004)
Approved by: Karak Anek (Karak Anek, Assistant General Manager, มัธยมศึกษา ๓ 204-๓-0004)



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2496757
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093160-3

Page 1 of 1

Sample Number	2496757-1					
Sampled Date	Sep 03, 2024 11:20 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_043_2550	Plot	E-01	Site	Copeland (Thailand) Limited	
Location	Sump pit					
Date Analysis Commenced	Sep 04, 2024					
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, some odour, solid and no turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	2.91	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing						
Fluoride as F ⁻	mg/L	0.06	0.2	1.0	≤3	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanayisa Chimphee, Samart Khumplee

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

Approved by

Chanatt L.
Chanattagorn Inthorn
Section Head

42/2 FF, 104 Phranthakan 40 Phranthakan Rd, Khwaeng Phranthakan, Khet San Luang Bangkok 10250 Thailand T: +66 0 2760 3000 F: +66 0 2760 3197



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042

Lot ID: 2496758
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093164-1

Page 1 of 2

Sample Number	2496758-1					
Sampled Date	Sep 03, 2024 3:15 PM					
Sample Description	Wastewater					
Contract ID	L_ESIE_008_2550	Plot	E-05	Site	FTS AUTOMOTIVE (THAILAND) CO., LTD	
Location	Sump pit					
Date Analysis Commenced	Sep 03, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Colorless, odourless, no solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	—	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G
COD	mg/L	1.3	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D
Color (at Original pH)	ADMI	—	5	7	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F
Color (at pH 7.0)	ADMI	—	5	7	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CH (C, E)
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2004
Oil & Grease	mg/L	—	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 B
pH (on site)	—	—	—	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)

Technical Management

Photchan S.
Photchan S.
Scientist (A)
วิไลวรรณ ย-323-A-0002

Approved by

D. Chanattagorn
Daj Chanattagorn
Senior Manager
วิไลวรรณ ย-323-A-0001

Results apply to the samples as submitted, unless the sampling was controlled by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) Company Limited hereby warrants that this report is a true and accurate report of the analysis.

42/2 FF, 104 Phranthakan 40 Phranthakan Rd, Khwaeng Phranthakan, Khet San Luang Bangkok 10250 Thailand T: +66 0 2760 3000 F: +66 0 2760 3197



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042

Lot ID: 2496758
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093164-1

Page 2 of 2

Sample Number	2496758-1					
Sampled Date	Sep 03, 2024 3:15 PM					
Sample Description	Wastewater					
Contract ID	L_ESIE_008_2550	Plot	E-05	Site	FTS AUTOMOTIVE (THAILAND) CO., LTD	
Location	Sump pit					
Date Analysis Commenced	Sep 04, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Colorless, odourless, no solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D
Temperature	Degree C	—	—	29.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	—	5	64	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	—	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanayisa Chimphee วิไลวรรณ ย-323-A-0002, Samart Khumplee วิไลวรรณ ย-323-A-0004

Remark:
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method : Values 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

Photchan S.
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Scientist (A)
วิไลวรรณ ย-323-A-0002

Approved by

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42/2 FF, 104 Phranthakan 40 Phranthakan Rd, Khwaeng Phranthakan, Khet San Luang Bangkok 10250 Thailand T: +66 0 2760 3000 F: +66 0 2760 3197



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2496758
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093164-2

Page 1 of 2

Sample Number	2496758-1					
Sampled Date	Sep 03, 2024 3:15 PM					
Sample Description	Wastewater					
Contract ID	L_ESIE_008_2550	Plot	E-05	Site	FTS AUTOMOTIVE (THAILAND) CO., LTD	
Location	Sump pit					
Date Analysis Commenced	Sep 04, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Colorless, odourless, no solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Arsenic	mg/L	0.0003	0.0005	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Bismuth	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Technical Management

Chanatt L.
Chanattagorn Inthorn
Section Head
วิไลวรรณ ย-323-A-0002

Approved by

Kanitkorn Anek
Kanitkorn Anek
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496758-1
Sampled Date : Sep 03, 2024 3:15 PM
Sample Description : Wastewater
Contract ID : L_ESTIE_008_2550 Plot E-05 Site FTS AUTOMOTIVE (THAILAND) CO.,LTD
Location : Sump pit
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.0005	<1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	<0.005	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chimphelee รหัสประจำตัว 323-4-0020, Samart Khumplee รหัสประจำตัว 204-4-0084

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

Chanatt L.

Chanattagorn Imchom
Section Head
รหัสประจำตัว 204-4-0008

Approved by

Kanokorn Anik

Kanokorn Anik
Assistant General Manager
รหัสประจำตัว 204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496758-1
Sampled Date : Sep 03, 2024 3:15 PM
Sample Description : Wastewater
Contract ID : L_ESTIE_008_2550 Plot E-05 Site FTS AUTOMOTIVE (THAILAND) CO.,LTD
Location : Sump pit
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.03	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chimphelee รหัสประจำตัว 323-4-0020, Samart Khumplee รหัสประจำตัว 204-4-0084

Remark :
LOD : Limit of Detection
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496759-1
Sampled Date : Sep 03, 2024 3:40 PM
Sample Description : Wastewater
Contract ID : L_ESTIE_164_2550 Plot E-03,04 Site Thai Fine Sinter Co.,Ltd
Location : Sump pit
Date Analysis Commenced : Sep 03, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	58.9	≤500	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	192	≤750	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	66	≤600	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	63	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchanas S.

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Approved by

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Det Chanchon
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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496759-1
Sampled Date : Sep 03, 2024 3:40 PM
Sample Description : Wastewater
Contract ID : L_ESTIE_164_2550 Plot E-03,04 Site Thai Fine Sinter Co.,Ltd
Location : Sump pit
Date Analysis Commenced : Sep 03, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.04	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2530 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	168	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chimphelee รหัสประจำตัว 323-4-0020, Samart Khumplee รหัสประจำตัว 204-4-0084

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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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 2496760
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093170-1

Page 1 of 2

Sample Number : 2496760-1
Sampled Date : Sep 03, 2024 2:50 PM
Sample Description : Wastewater
Contract ID : L_ESIE_026_2550 Plot : EM-01 Site : CCI Automotive Products Co., Ltd
Date Analysis Commenced : Sep 03, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	Degree C			30.5	≤45	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			184	≤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 102-105 degree C	mg/L			14	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warinyoo Chimpithee รหัสประจำตัว 3-323-0-0020, Samart Khumplinee รหัสประจำตัว 3-204-0-0084

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

Technical Management

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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2496760
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093170-2

Page 1 of 2

Sample Number : 2496760-1
Sampled Date : Sep 03, 2024 2:50 PM
Sample Description : Wastewater
Contract ID : L_ESIE_026_2550 Plot : EM-01 Site : CCI Automotive Products Co., Ltd
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.28	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2200 G-0	Bangkok
Lead	mg/L	0.0003	0.0005	0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.

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Section Head
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Approved by

Kanokorn Anek

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Assistant General Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0008
Lot ID: 2496760
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093170-2

Page 1 of 2

Sample Number : 2496760-1
Sampled Date : Sep 03, 2024 2:50 PM
Sample Description : Wastewater
Contract ID : L_ESIE_026_2550 Plot : EM-01 Site : CCI Automotive Products Co., Ltd
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.001	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium	mg/L			0.01	≤0.1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warinyoo Chimpithee รหัสประจำตัว 3-323-0-0020, Samart Khumplinee รหัสประจำตัว 3-204-0-0084

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

Technical Management

Chanatt L.

Chanattagorn Jiradom
Section Head
รหัสประจำตัว 3-204-0-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2496760
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093170-3

Page 1 of 2

Sample Number : 2496760-1
Sampled Date : Sep 03, 2024 2:50 PM
Sample Description : Wastewater
Contract ID : L_ESIE_026_2550 Plot : EM-01 Site : CCI Automotive Products Co., Ltd
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.34	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.05	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (DI)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warinyoo Chimpithee , Samart Khumplinee

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

Technical Management

Chanatt L.

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Section Head
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2496761
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3993173-1

Page 1 of 2

Sample Number	2496761-1						
Sampled Date	Sep 03, 2024 2:40 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_184_2550 Plot EM-02.03 Site Tsuchiyoshi Somboon Coated Sand Co., Ltd						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, odorless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 512B, 5, part 4500 - O-G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 522D	Rayong
Color (at Original pH)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 522D	Rayong
Color (at pH 7.0)	ADMI	-	5	6	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 522D	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5100 F	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5100 F	Rayong
Oil & Grease	mg/L	-	-	<3	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5120 B	Rayong
pH (on site) *				7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
มือถือ 09-323-4-0028

Approved by

D. Chongchon

Det Chongchon
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2496761
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3993173-1

Page 1 of 2

Sample Number	2496761-1						
Sampled Date	Sep 03, 2024 2:40 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_184_2550 Plot EM-02.03 Site Tsuchiyoshi Somboon Coated Sand Co., Ltd						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, odorless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.8	≤45	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	78	≤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	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chingphong รหัสประจำตัว 323-4-0020, Samart Khumphet รหัสประจำตัว 324-4-0094

Remark :
* LOD : Limit of Detection
* < : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
* Analytical method * where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been approved as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2496761
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3993173-2

Page 1 of 2

Sample Number	2496761-1						
Sampled Date	Sep 03, 2024 2:40 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_184_2550 Plot EM-02.03 Site Tsuchiyoshi Somboon Coated Sand Co., Ltd						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, odorless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0005	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Calcium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C-6	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.

Chanattam Imchom
Section Head
มือถือ 09-324-4-0008

Approved by

Kankorn Anet

Kankorn Anet
Assistant General Manager
มือถือ 09-324-4-0004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 2496761
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3993173-2

Page 2 of 2

Sample Number	2496761-1						
Sampled Date	Sep 03, 2024 2:40 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_184_2550 Plot EM-02.03 Site Tsuchiyoshi Somboon Coated Sand Co., Ltd						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, odorless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3111	Bangkok
Nickel	mg/L	0.0003	0.0005	<0.0005	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Totals Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chingphong รหัสประจำตัว 323-4-0020, Samart Khumphet รหัสประจำตัว 324-4-0094

Remark :
* LOD : Limit of Detection
* < : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
* Analytical method * where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been approved as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

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Chanattam Imchom
Section Head
มือถือ 09-324-4-0008

Approved by

Kankorn Anet

Kankorn Anet
Assistant General Manager
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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496761
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093173.3

Page 1 of 2

Sample Number	2496761-1										Page 1 of 1
Sampled Date	Sep 03, 2024 2:40 PM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_184_2550		Plot	EM-02.03		Site	Tsachyodh Sombaan Coated Sand Co., Ltd				
Date Analysis Commenced	Sep 04, 2024										
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)										
Physical Property	Colorless, odorless, some solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Iron	mg/L	0.003	0.005	0.04	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Water Testing											
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F (D)	Rayong				

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chumphae, Samart Khumplee

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked "N/A" 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

Approved by

Charatt L.

Charattam Inchan
Section Head

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496762
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093176-1

Page 1 of 2

Sample Number	2496762-1						
Sampled Date	Sep 03, 2024 2:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_192_2550 Plot EM-07.08 Site YANAGAWA TECHNO FORGE (THAILAND) Co.,Ltd						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odor, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	63.3	≤500	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	288	≤750	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	156	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F	Rayong
Color (at pH 7.0)	ADMI	-	5	154	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C, G)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	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

Technical Management

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Approved by

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Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from ALS. All sampling data (including) blank(s) and standard(s) that the water is not applicable, change as full.

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496762
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093176-1

Page 2 of 2

Sample Number	2496762-1											Page 2 of 2
Sampled Date	Sep 03, 2024 2:10 PM											
Sample Description	Wastewater											
Contract ID	L_ESTIE_192_2550		Plot	EM-07.08		Site	YANAGAWA TECHNO FORGE (THAILAND) Co.,Ltd					
Date Analysis Commenced	Sep 03, 2024											
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)											
Physical Property	Yellow, a lot of odor, some solid and a lot of turbid											
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location					
Water Testing												
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong					
Temperature *	Degree C			28.4	≤45	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	540	≤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	54	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong					

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chumphae mduwasa@y-323-y-0028, Samart Khumplee mduwasa@y-323-y-0004

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked "N/A" 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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Approved by

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496762
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093176-2

Page 1 of 2

Sample Number	2496762-1										
Sampled Date	Sep 03, 2024 2:10 PM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_192_2550				Plot	EM-07.08		Site	YANAGAWA TECHNO FORGE (THAILAND) Co.,Ltd		
Date Analysis Commenced	Sep 04, 2024										
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)										
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Boron	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr 6	Bangkok				
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Technical Management

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Sauwitra Naisrang
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Kanokorn And

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Analysis / Test Report

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Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009
Lot ID: 2496762
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093176-2

Page 2 of 2

Sample Number	2496762-1									
Sampled Date	Sep 03, 2024 2:10 PM									
Sample Description	Wastewater									
Contract ID	L_ESIE_192_2550	Plot	EH-07/08	Site	YANAGAWA TECHNO FORGE (THAILAND) Co.,Ltd					
Date Analysis Commenced	Sep 04, 2024									
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)									
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Total Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Zinc	mg/L	0.003	0.005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Warunyo Chimpakdee รหัสประจำตัว 1-323-4-0020 , Samart Khumpluee รหัสประจำตัว 1-204-4-0084

Remarks
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical Method * : 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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Manager
โทรศัพท์ 1-204-4-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 1-204-4-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0009
Lot ID: 2496762
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093176-3

Page 1 of 1

Sample Number	2496762-1						
Sampled Date	Sep 03, 2024 2:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_192_2550	Plot	EH-07/08	Site	YANAGAWA TECHNO FORGE (THAILAND) Co.,Ltd		
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.43	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Warunyo Chimpakdee , Samart Khumpluee

Remark :

LOD : Limit of Detection

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

Analytical method * : Not included in scope of Accreditation ISO/IEC 17025

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

Approved by

Approved by

Savitree N.
Savitree Nongnang
Manager
โทรศัพท์ 1-204-4-0007

112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong Thailand 21140



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042
Lot ID: 2496763
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093178-1

Page 2 of 2

Sample Number	2496763-1										Page 1 of 1
Sampled Date	Sep 03, 2024 2:25 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_192_2550		Plot	EH-04	Site	Yanagawa Techno Forge (Thailand) Co., Ltd.					
Date Analysis Commenced	Sep 03, 2024										
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment + preservation standards (APHA, USEPA)										
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	44.5	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 - D-G	Rayong				
COD	mg/L	1.5	25	136	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong				
Cr (at Original pH)	ADMI	-	5	75	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Color (at pH 7.0)	ADMI	-	5	75	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 C (C, E)	Rayong				
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong				
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong				
pH (on site) *	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 (H) (a)	Rayong				

Technical Management

Photchanas S.
Photchanas Saeas
Scientist (A)
โทรศัพท์ 1-323-4-0020

Approved by

Dj Chongchon
Dj Chongchon
Senior Manager
โทรศัพท์ 1-323-4-0001



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING
No 0042
Lot ID: 2496763
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093178-1

Page 2 of 2

Sample Number	2496763-1						
Sampled Date	Sep 03, 2024 2:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_192_2550	Plot	EH-04	Site	Yanagawa Techno Forge (Thailand) Co., Ltd.		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong
Temperature *	Degree C	-	-	29.2	≤45	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	244	≤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	21	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates. Sampling By : Warunyo Chimpakdee รหัสประจำตัว 1-323-4-0020 , Samart Khumpluee รหัสประจำตัว 1-204-4-0084							
Remarks							
LOD : Limit of Detection * : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting) Analytical Method * : 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

Photchanas S.
Photchanas Saeas
Scientist (A)
โทรศัพท์ 1-323-4-0020

Approved by

Dj Chongchon
Dj Chongchon
Senior Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2496763
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093178-2

Page 1 of 1

Sample Number	2496763-1						
Sampled Date	Sep 03, 2024 2:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_198_2550	Pilot	EM-04	Site	Yanagawa Techno Forge (Thailand) Co., Ltd		
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nongsangam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokkorn A.

Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2496763
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093178-2

Page 2 of 2

Sample Number	2496763-1						
Sampled Date	Sep 03, 2024 2:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_198_2550	Pilot	EM-04	Site	Yanagawa Techno Forge (Thailand) Co. Ltd		
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanyoo Chumphuee โทรศัพท์ 0-323-4-0020, Smart Khumpluee โทรศัพท์ 0-204-4-0084

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were 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

Savitree N.

Savitree Nongsangam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokkorn A.

Kanokkorn Anek
Assistant General Manager
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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2496764
Date Received : Sep 03, 2024
Date Reported : Sep 16, 2024
Report Number : 3093186-1

Page 1 of 1

Sample Number	2496764-1						Page 1 of 1
Sampled Date	Sep 03, 2024 2 25 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_194_2550	Pilot	EM-04	Site	Yanagawa Techno Forge (Thailand) Co.,Ltd		
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.002	0.005	0.25	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanyoo Chumphuee , Smart Khumpluee

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * were 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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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2496764
Date Received : Sep 02, 2024
Date Reported : Sep 16, 2024
Report Number : 3093186-1

Page 2 of 2

Sample Number	2496764-1						
Sampled Date	Sep 02, 2024 9:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_194_2550	Plot	5-29C	Site	SMRC Automotive Smart Interior Tech (Thailand) Ltd		
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	20.2	≤500	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	96	≤750	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	89	≤600	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	87	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CH (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	6.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Photchan S.

Photchan Saeak
Senior Manager
โทรศัพท์ 0-323-4-0028

Approved by

Dej Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2496764
Date Received : Sep 02, 2024
Date Reported : Sep 16, 2024
Report Number : 3093180-1

Page 1 of 1

Sample Number 2496764-1
Sampled Date Sep 02, 2024 9:00 AM
Sample Description Wastewater
Contract ID L_ESIE_194_2550 Plot S-29C Site SMRC Automotive Smart Interior Tech (Thailand) Ltd.
Date Analysis Commenced Sep 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	Degree C	-	-	30.1	≤45	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	360	≤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	15	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinutti วิสาณคินุตติ ๖-323-๖0019, Karabunde Krasupavan วิศรุตประเสริฐ ๖-204-๖0001

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

Photchanas S.

Photchanas Seda
Senior Manager
วิสาณคินุตติ ๖-323-๖0019

Approved by

D. Krasupavan

Dej Chongchom
Senior Manager
วิสาณคินุตติ ๖-323-๖0019

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496764
Date Received : Sep 02, 2024
Date Reported : Sep 16, 2024
Report Number : 3093180-2

Page 1 of 1

Sample Number 2496764-1
Sampled Date Sep 02, 2024 9:00 AM
Sample Description Wastewater
Contract ID L_ESIE_194_2550 Plot S-29C Site SMRC Automotive Smart Interior Tech (Thailand) Ltd.
Date Analysis Commenced Sep 03, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nongniam
Manager
วิสาณคินุตติ ๖-204-๖0007

Approved by

Karakom Anet

Karakom Anet
Assistant General Manager
วิสาณคินุตติ ๖-204-๖0004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496764
Date Received : Sep 02, 2024
Date Reported : Sep 16, 2024
Report Number : 3093180-2

Page 1 of 1

Sample Number 2496764-1
Sampled Date Sep 02, 2024 9:00 AM
Sample Description Wastewater
Contract ID L_ESIE_194_2550 Plot S-29C Site SMRC Automotive Smart Interior Tech (Thailand) Ltd.
Date Analysis Commenced Sep 03, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinutti วิสาณคินุตติ ๖-323-๖0019, Karabunde Krasupavan วิศรุตประเสริฐ ๖-204-๖0001

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

Savitree N.

Savitree Nongniam
Manager
วิสาณคินุตติ ๖-204-๖0007

Approved by

Karakom Anet

Karakom Anet
Assistant General Manager
วิสาณคินุตติ ๖-204-๖0004

Headquarters: 104 Phatthanakan 40 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand Tel: +66 0 2760 3000 Fax: +66 0 2760 3197
Branch: 104 Phatthanakan 40 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand Tel: +66 0 2760 3000 Fax: +66 0 2760 3197

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496764
Date Received : Sep 02, 2024
Date Reported : Sep 16, 2024
Report Number : 3093180-3

Page 1 of 1

Sample Number 2496764-1
Sampled Date Sep 02, 2024 9:00 AM
Sample Description Wastewater
Contract ID L_ESIE_194_2550 Plot S-29C Site SMRC Automotive Smart Interior Tech (Thailand) Ltd.
Date Analysis Commenced Sep 03, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.40	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinutti วิสาณคินุตติ ๖-323-๖0019, Karabunde Krasupavan วิศรุตประเสริฐ ๖-204-๖0001

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

Savitree N.

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Manager
วิสาณคินุตติ ๖-204-๖0007

Approved by

Karakom Anet

Karakom Anet
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496765
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093182-1

Page 1 of 2

Sample Number	2496765-1						Page 1 of 1
Sampled Date	Sep 02, 2024 9:25 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_030_2550	Plot	5-29E	Site	Dana Spicer (Thailand) Ltd		
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Black, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOO (5 days at 20 Degree C)	mg/L	-	2.0	57.8	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 512 B, part 1500 - O-G	Rayong
COD	mg/L	1.5	25	153	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 512 D	Rayong
Color (at Original pH)	ADME	-	5	55	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADME	-	5	52	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5500-CH (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	<1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong
Oil & Grease	mg/L	-	-	9	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5120 B	Rayong
pH (on site) *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - A (B)	Rayong

Technical Management

Photchanas S.

Photchanas Sere
Scientist (4)
วิไลวุฒิ 1-323-4-0001

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
วิไลวุฒิ 1-323-4-0001



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496765
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093182-1

Page 2 of 2

Sample Number	2496765-1						
Sampled Date	Sep 02, 2024 9:25 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_030_2550	Plot	5-29E	Site	Dana Spicer (Thailand) Ltd		
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Black, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.09	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.5	≤45	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	432	≤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	29	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatwongwong 1-323-4-0019, Kanchanok Kiatwongwong 1-323-4-0001

Remarks :
- LOD : Limit of Detection
- "F" : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
- Analytical method : where not included in scope of Accreditation ISO/IEC 17025
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

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Photchanas Sere
Scientist (4)
วิไลวุฒิ 1-323-4-0001

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
วิไลวุฒิ 1-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496765
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093182-2

Page 1 of 2

Sample Number	2496765-1						
Sampled Date	Sep 02, 2024 9:25 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_030_2550	Plot	5-29E	Site	Dana Spicer (Thailand) Ltd.		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Black, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	2.19	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nonsang
Manager
วิไลวุฒิ 1-204-4-0007

Approved by

Kanokorn Anet

Kanokorn Anet
Assistant General Manager
วิไลวุฒิ 1-204-4-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496765
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093182-2

Page 2 of 2

Sample Number	2496765-1					Page 2 of 2
Sampled Date	Sep 02, 2024 9:25 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_030_2550	Plot	5-29E	Site	Dana Spicer (Thailand) Ltd	
Date Analysis Commenced	Sep 03, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Black, a lot of odour, some solids and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112
Nickel	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Trivalent Chromium *	mg/L	-	0.01	0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Zinc	mg/L	0.003	0.005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatwongwong 1-323-4-0019, Kanchanok Kiatwongwong 1-323-4-0001

Remarks :
- LOD : Limit of Detection
- "F" : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
- Analytical method : where not included in scope of Accreditation ISO/IEC 17025
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Savitree N.

Savitree Nonsang
Manager
วิไลวุฒิ 1-204-4-0007

Approved by

Kanokorn Anet

Kanokorn Anet
Assistant General Manager
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496765
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093182-3

Page 1 of 2

Sample Number	2496765-1					
Sampled Date	Sep 02, 2024 9:25 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_050_2550	Plot	S-29E	Site	Dana Spacer (Thailand) Ltd	
Date Analysis Commenced	Sep 03, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Black, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	1.17	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing						
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kuntum , Kerdbundit Kirsapavanit

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

Approved by

Savitree N.
Savitree Nongnangam
Manager

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496766
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093183-1

Page 1 of 2

Sample Number	2496766-1					
Sampled Date	Sep 02, 2024 9:39 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_050_2550	Plot	S-29F	Site	SHPP (THAILAND) Co., Ltd	
Date Analysis Commenced	Sep 02, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, solid and some turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	69.1	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200 G-G
COD	mg/L	15	25	216	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D
Color (at Original pH)	ADMG	-	5	115	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Color (at pH 7.0)	ADMG	-	5	108	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual: Environmental Engineering Association of Thailand, 4th ed., 2004
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
pH (on site) *	-	-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 -H (B)

Technical Management

Photchan S.
Photchan Seeda
Scientist (4)
โทรศัพท์ 3-323-0028

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-0001



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496766
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093183-1

Page 2 of 2

Sample Number	2496766-1					
Sampled Date	Sep 02, 2024 9:19 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_050_2550	Plot	S-29F	Site	SHPP (THAILAND) Co., Ltd	
Date Analysis Commenced	Sep 02, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, solid and some turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
Phenol	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
Temperature *	Degree C	-	-	30.4	145	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Dissolved Solids Dried at 180 Degree C	mg/L	-	3	696	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kuntum โทรศัพท์ 3-323-0019 , Kerdbundit Kirsapavanit โทรศัพท์ 3-323-0001

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

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-0001



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496766
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093183-2

Page 1 of 2

Sample Number	2496766-1					
Sampled Date	Sep 02, 2024 9:19 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_050_2550	Plot	S-29F	Site	SHPP (THAILAND) Co., Ltd	
Date Analysis Commenced	Sep 03, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, solid and some turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Metals Testing						
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Boron	mg/L	0.0003	0.0005	0.16	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Hexavalent Chromium	mg/L	0.0003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-G B
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Technical Management

Savitree N.
Savitree Nongnangam
Manager
โทรศัพท์ 3-323-0028

Approved by

Kanokorn Anuk
Kanokorn Anuk
Assistant General Manager
โทรศัพท์ 3-323-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0009
Lot ID: 2496766
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3091183-2

Page 2 of 2

Sample Number	2496766-1							
Sampled Date	Sep 02, 2024 9 19 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_050_2550 Plot S 29F							Site SHPP (THAILAND) Co.,Ltd
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.010	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.29	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kiatniront, Wastewater Engineer, 3091183-2, Kambundit Kiatniront, Wastewater Engineer, 3091183-2

Remarks:
- LOD : Limit of Detection
- "e" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * were 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

Savitree N.
Savitree Nosangam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0042
Lot ID: 2496767
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3091189-1

Page 2 of 2

Sample Number	2496767-1										
Sampled Date	Sep 02, 2024 10:03 AM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_071_2550		Plot		I-46,47		Site				ADIENT & SUMMIT CORPORATION LTD.
Date Analysis Commenced	Sep 02, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid										
Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	130	≤500	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	317	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong				
Color (at Original pH)	ADME	-	5	118	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Color (at pH 7.0)	ADME	-	5	114	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CH (C)	Rayong				
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong				
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong				
pH (on site) *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (H)	Rayong				

Technical Management

Photchana S.
Photchana Seeda
Senior Manager
โทรศัพท์ 0-2323-4-0029

Approved by

D. Chingchon
D. Chingchon
Senior Manager
โทรศัพท์ 0-2323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0009
Lot ID: 2496766
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3091183-2

Page 2 of 2

Sample Number	2496766-1						
Sampled Date	Sep 02, 2024 9:39 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_050_2550	Plot	S 29F	Site	SHPP (THAILAND) Co. Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.53	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline: Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Wasan Kiatniront, Wastewater Engineer, 3091183-2, Kambundit Kiatniront, Wastewater Engineer, 3091183-2

Remarks:

LOD : Limit of Detection

"e" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

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

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

Result refers to the sample as submitted, unless the laboratory has been notified in writing that the sample is to be analyzed on a different basis. The laboratory is not responsible for the accuracy of the results if the sample is not analyzed as submitted.

Approved by

Savitree N.
Savitree Nosangam
Manager
โทรศัพท์ 0-204-4-0007

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0042
Lot ID: 2496767
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3091189-1

Page 2 of 2

Sample Number	2496767-1						
Sampled Date	Sep 02, 2024 10 03 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_071_2550	Plot	I-46, 47	Site	ADIENT & SUMMIT CORPORATION LTD		
Data Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.19	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	30.6	≤45	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	284	≤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	89	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kiatniront, Wastewater Engineer, 3091183-2, Kambundit Kiatniront, Wastewater Engineer, 3091183-2

Remarks:

- LOD : Limit of Detection
- *e : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Analyte(s) marked * were 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

Photchana S.
Photchana Seeda
Senior Manager
โทรศัพท์ 0-2323-4-0029

Approved by

D. Chingchon
D. Chingchon
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009

Lot ID: 2496767
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093189-2

Page 1 of 2

Sample Number	2496767-1						
Sampled Date	Sep 02, 2024 10:03 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_071_2550					Plot	1-46,47
Date Analysis Commenced	Sep 03, 2024					Site	ADIENT & SUMMIT CORPORATION LTD
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.05	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nongsangiam
Manager
โทรศัพท์ ๖-๒๕๖-๖๐๐๗

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
โทรศัพท์ ๖-๒๕๖-๖๐๐๗

Results given to the clients are not intended to be used for any other purpose than the one for which they were intended. The results are not intended to be used for any other purpose than the one for which they were intended. The results are not intended to be used for any other purpose than the one for which they were intended.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009

Lot ID: 2496767
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093189-2

Page 2 of 2

Sample Number	2496767-1						
Sampled Date	Sep 02, 2024 10:03 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_071_2550					Plot	1-46,47
Date Analysis Commenced	Sep 03, 2024					Site	ADIENT & SUMMIT CORPORATION LTD
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0003	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisan Kinnam wisan@alsglobal.com ๖-๒๕๖-๖๐๐๗, Kankorn Anek kankorn@alsglobal.com ๖-๒๕๖-๖๐๐๗

Remarks:

- LOD : Limit of Detection
- LOQ : Lower than LOD (Limit of Quantification) / LOB (Limit of Reporting)
- Analysis marked * : 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

Savitree N.

Savitree Nongsangiam
Manager
โทรศัพท์ ๖-๒๕๖-๖๐๐๗

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
โทรศัพท์ ๖-๒๕๖-๖๐๐๗

Results given to the clients are not intended to be used for any other purpose than the one for which they were intended. The results are not intended to be used for any other purpose than the one for which they were intended. The results are not intended to be used for any other purpose than the one for which they were intended.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009

Lot ID: 2496767
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093189-3

Page 1 of 1

Sample Number	2496767-1						
Sampled Date	Sep 02, 2024 10:03 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_071_2550					Plot	1-46,47
Date Analysis Commenced	Sep 03, 2024					Site	ADIENT & SUMMIT CORPORATION LTD
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.46	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (C)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisan Kinnam wisan@alsglobal.com ๖-๒๕๖-๖๐๐๗, Kankorn Anek kankorn@alsglobal.com ๖-๒๕๖-๖๐๐๗

- Remarks:
- LOD : Limit of Detection
 - LOQ : Lower than LOD (Limit of Quantification) / LOB (Limit of Reporting)
 - Analysis marked * : 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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Approved by

Savitree N.

Savitree Nongsangiam
Manager

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042

Lot ID: 2496768
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093192-1

Page 1 of 2

Sample Number	2496768-1						
Sampled Date	Sep 02, 2024 10:19 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_135_2550					Plot	1-45
Date Analysis Commenced	Sep 02, 2024					Site	Sanko Gasei Technology (Thailand) Co., Ltd.
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 Days at 20 Degree C)	mg/L	-	2.0	51.8	≤500	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	146	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (At Original pH)	ADME	-	5	33	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 F	Rayong
Color (at pH 7.0)	ADMI	-	5	31	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5550 B	Rayong
pH (on site) *	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (E)	Rayong

Technical Management

Phatchara S.

Phatchara Seeda
Sororns (A)
โทรศัพท์ ๖-๒๕๖-๖๐๐๗

Approved by

Dej Chingchon

Dej Chingchon
Sororns (A)
โทรศัพท์ ๖-๒๕๖-๖๐๐๗

Results given to the clients are not intended to be used for any other purpose than the one for which they were intended. The results are not intended to be used for any other purpose than the one for which they were intended. The results are not intended to be used for any other purpose than the one for which they were intended.

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Analysis / Test Report

TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2496768
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093192-1

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2496768-1						
Sampled Date	Sep 02, 2024 10:19 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_135_2550	Pilot	1-45	Site	Sanko Gosei Technology (Thailand) Co., Ltd.		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.07	<1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5570 D	Rayong
Temperature	Degree C	-	-	29.6	<45	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	132	<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	71	<200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kiatwong wsd@wsgsai.com 1-323-4-0019, Karbundeit Kiatwongwong wsd@wsgsai.com 1-204-4-0001

Remark:
LOD Limit of Detection
"C" Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * - value 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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Approved by

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Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER

Analysis / Test Report

TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2496768
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093192-2

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2496768-1						
Sampled Date	Sep 02, 2024 10:19 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_135_2550	Pilot	1-45	Site	Sri ko Gosew Technology (Thailand) Co.,Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.19	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.08	≤20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3200 C-D	Bangkok
Lead	mg/L	0.0003	0.0005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Sawitree N.

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Approved by

Kankorn Anek

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Life Sciences

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Analysis / Test Report

TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2496768
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093192-2

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2496768-1						
Sampled Date	Sep 02, 2024 10:19 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_135_2550	Pilot	1-45	Site	Sanko Gosei Technology (Thailand) Co.,Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	<0.05	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	<10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.005	<0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	<0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.21	<50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kiatwong wsd@wsgsai.com 1-323-4-0019, Karbundeit Kiatwongwong wsd@wsgsai.com 1-204-4-0001

Remark:
LOD Limit of Detection
"C" Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * - value 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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Manager
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Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
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RIGHT SOLUTIONS RIGHT PARTNER

Analysis / Test Report

TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

Lot ID: 2496768
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093192-3

P/O :
Project Name : Random Check
Project Location : ESIE

Page 3 of 3

Sample Number	2496768-1						
Sampled Date	Sep 02, 2024 10:19 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_135_2550	Plot	1-45	Site	Sanko Gosei Technology (Thailand) Co., Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.12	<10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	<5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (2)	Rayong
Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By: Wasan Kumbot, Kirdbunder Kitkulpavanat							
Remarks:							
LOD = Limit of Detection							
"x" = lower than LOQ (Limit of Quantitation) / (OR Limit or Reporting)							
[Analytes] marked * = when not included in scope of accreditation (ISO/IEC 17025)							
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kiatwong wsd@wsgsai.com 1-323-4-0019, Karbundeit Kiatwongwong wsd@wsgsai.com 1-204-4-0001

Remark:
LOD Limit of Detection
"C" Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * - value 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

Sawitree N.

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Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496769
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093194-1

Page 2 of 2

Sample Number	2496769-1							Page 1 of 2
Sampled Date	Sep 02, 2024 10:39 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_061_2550		Plot	I-44	Site	JOHNSON CONTROLS - HITACHI COMPONENTS		
Date Analysis Commenced	Sep 02, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	37.6	≤500	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	15	25	130	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	APMC	-	5	80	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	APMC	-	5	78	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CN (C)	Rayong	
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CH (C)	Rayong	
Oil & Grease	mg/L	-	1	9	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 H (B)	Rayong	

Technical Management

Photchanha S.

Photchanha Seeda
Scientist (S)
vn00000001-323-0-0000

Approved by

D. Chongchon

D. Chongchon
Senior Manager
vn00000001-323-0-0001

*Result copy to the customer is subject to the laboratory's policy. If the result is not as expected, it may be subject to a re-test. The laboratory is not responsible for the result of a re-test. The laboratory is not responsible for the result of a re-test. The laboratory is not responsible for the result of a re-test.

1001 101 516/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand. Tel: +66 0 3304 8555 Fax: +66 0 3304 8556



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496769
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093194-1

Page 2 of 2

Sample Number	2496769-1							Page 1 of 1
Sampled Date	Sep 02, 2024 10 39 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_061_2550	Plot	I-44	Site	JOHNSON CONTROLS - HITACHI COMPONENTS			
Date Analysis Commenced	Sep 02, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.11	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2530 B	Rayong	
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	260	≤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	21	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisesan Krunthong vn00000001-323-0-0019, Karbunond Kibsupavann vn00000001-3204-0-0001

Remark

*LOD : Limit of Detection
*LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
*Analyte marked * were 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

Photchanha S.

Photchanha Seeda
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vn00000001-323-0-0000

Approved by

D. Chongchon

D. Chongchon
Senior Manager
vn00000001-323-0-0001

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1001 101 516/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand. Tel: +66 0 3304 8555 Fax: +66 0 3304 8556



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496769
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093194-2

Page 1 of 2

Sample Number	2496769-1							Page 1 of 8
Sampled Date	Sep 02, 2024 10:39 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_061_2350 Plot I-44 Site JOHNSON CONTROLS - HITACHI COMPONENTS							
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Technical Management

Savitree N.

Savitree Nisangam
Manager
vn00000001-204-0-0007

Approved by

Kankkorn Anuk

Kankkorn Anuk
Assistant General Manager
vn00000001-204-0-0004

*Result copy to the customer is subject to the laboratory's policy. If the result is not as expected, it may be subject to a re-test. The laboratory is not responsible for the result of a re-test. The laboratory is not responsible for the result of a re-test. The laboratory is not responsible for the result of a re-test.

1001 101 516/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand. Tel: +66 0 3304 8555 Fax: +66 0 3304 8556



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496769
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093194-2

Page 2 of 2

Sample Number	2496769-1						
Sampled Date	Sep 02, 2024 10:39 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_061_2550 Plot I-44 Site JOHNSON CONTROLS - HITACHI COMPONENTS						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisesan Krunthong vn00000001-323-0-0019, Karbunond Kibsupavann vn00000001-204-0-0001

Remark

*LOD : Limit of Detection
*LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
*Analyte marked * were 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

Savitree N.

Savitree Nisangam
Manager
vn00000001-204-0-0007

Approved by

Kankkorn Anuk

Kankkorn Anuk
Assistant General Manager
vn00000001-204-0-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0009
Lot ID: 2496769
Date Received : Sep 03, 2024
Date Reported : Sep 05, 2024
Report Number : 3093194-3

Page 1 of 1

Sample Number	2496769-1										Page 1 of 1
Sampled Date	Sep 02, 2024 10:19 AM										
Sample Description	Wastewater										
Contract ID	L_ESIE_061_2350			Plot	1-44	Site	JOHNSON CONTROLS - HITACHI COMPONENTS				
Date Analysis Commenced	Sep 03, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and turbid										
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Iron	mg/L	0.003	0.005	0.21	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Water Testing											
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinuam , Kanchanok Kongsuwan

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

Approved by

Savitree N.
Savitree Nongsangman
Manager



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0042
Lot ID: 2496770
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093195-1

Page 1 of 1

Sample Number	2496770-1										
Sampled Date	Sep 04, 2024 9:15 AM										
Sample Description	Wastewater										
Contract ID	L_ESIE_029_2550										
Plot	5-28B										
Site	Dado SP (Thailand) Co., Ltd										
Date Analysis Commenced	Sep 04, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.1	≤500	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	64	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong				
Color (at Original pH)	ADMI	-	3	55	≤600	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	51	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, F)	Rayong				
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong				
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong				
pH (on site) *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Rayong				

Technical Management

Photchanha S.
Photchanha Seeds
Scientist (A)
วิไลวรรณ 3-323-0-0001

Approved by

Dej Chanchong
Senior Manager
วิไลวรรณ 3-323-0-0001

Result of the sample is satisfactory, when the sampling was performed by ALS. No part of the report shall be considered as valid without written consent from the laboratory.
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0042
Lot ID: 2496770
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093195-2

Page 2 of 2

Sample Number	2496770-1										Page 2 of 2
Sampled Date	Sep 04, 2024 9 15 AM										
Sample Description	Wastewater										
Contract ID	L_ESIE_029_2550		Plot	5 286	Site	Dado SP (Thailand) Co.,Ltd					
Date Analysis Commenced	Sep 04, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong				
Temperature *	Degree C	-	-	29.8	≤45	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	152	≤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	21	≤1000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Photchanha Sthitthit Witsuwatthi 3-323-0-0023, Paraporn Sawangjatan Witsuwatthi 3-323-0-0002

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOD (Limit of Reporting)
Analyte(s) marked * were 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

Photchanha S.
Photchanha Seeds
Scientist (A)
วิไลวรรณ 3-323-0-0023

Approved by

Dej Chanchong
Senior Manager
วิไลวรรณ 3-323-0-0001

Technical Management

Savitree N.
Savitree Nongsangman
Manager
วิไลวรรณ 3-323-0-0007

Approved by

Kanokorn Anet
Assistant General Manager
วิไลวรรณ 3-323-0-0008

Result of the sample is satisfactory, when the sampling was performed by ALS. No part of the report shall be considered as valid without written consent from the laboratory.
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496770
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093195-2

Page 1 of 1

Sample Number	2496770-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9:15 AM							
Sample Description	Wastewater							
Contract ID	L-ESIE-029-2550	Plot	S-288	Site	Dado SP (Thailand) Co., Ltd.			
Date Analysis Commented	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Manganese	mg/L	0.0003	0.0005	0.06	≤ 0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤ 0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.002	≤ 1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	Not Detected	≤ 0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	—	0.01	< 0.01	≤ 0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.04	≤ 5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsit Sathitich Wridouan 1-323-4-0023, Pichanapa Sawangjatan Wridouan 1-204-4-0002

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

Technical Management
Savitree N.
Savitree Nonsangam
Manager
Wridouan 1-204-4-0007

Approved by
Kanokorn A.
Kanokorn Anek
Assistant General Manager
Wridouan 1-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling and analysis has been signed off by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496770
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093195-3

Page 1 of 1

Sample Number	2496770-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9:15 AM							
Sample Description	Wastewater							
Contract ID	L_EST029_2550	Plot	S 288	Site	Dado SP (Thailand) Co., Ltd			
Date Analysis Commented	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsit Sathitich Wridouan 1-323-4-0023, Pichanapa Sawangjatan Wridouan 1-204-4-0002

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

Approved by
Photchanas S.
Photchanas Seeda
Scientist (1)

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496770
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093195-2

Page 1 of 1

Analytical method * is not included in scope of Accreditation ISO/IEC 17025							
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsit Sathitich Wridouan 1-323-4-0023, Pichanapa Sawangjatan Wridouan 1-204-4-0002

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

Technical Management
Savitree N.
Savitree Nonsangam
Manager
Wridouan 1-204-4-0007

Approved by
Kanokorn A.
Kanokorn Anek
Assistant General Manager
Wridouan 1-204-4-0004

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496771
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093197-1

Page 1 of 1

Sample Number	2496771-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9:25 AM							
Sample Description	Wastewater							
Contract ID	L-ESIE-165-2550	Plot	S-28A	Site	Linde (Thailand) PLC			
Date Analysis Commented	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	—	2.0	47.1	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 O-G	Rayong	
CDO	mg/L	1.5	25	262	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	ADNU	—	5	131	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	ADNU	—	5	130	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2150 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong	
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong	
Oil & Grease	mg/L	—	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	—	—	—	6.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-n (B)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsit Sathitich Wridouan 1-323-4-0023, Pichanapa Sawangjatan Wridouan 1-204-4-0002

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

Technical Management
Photchanas S.
Photchanas Seeda
Scientist (1)
Wridouan 1-323-4-0023

Approved by
D. Chongchon
Dej Chongchon
Senior Manager
Wridouan 1-323-4-0001

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P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496771
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093197-1

Sample Number	2496771-1							Page 2 of 2
Sampled Date	Sep 04, 2024 9:26 AM							
Sample Description	Wastewater							
Contract ID	L ESIE_165_2550		Plot	S-28A		Site	Linde (Thailand) P.L.C.	
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D	Rayong	
Temperature	Degree C			31.1	≤45	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			300	≤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			72	≤700	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Phongsit Sathitachai, Pattarapol Sawangjittam, and others

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

Technical Management

Photchanha S.

Photchanha Sornka
Scientist (A)
โทรศัพท์ 0-204-0000

Approved by

Dr. Chongchon

Dr. Chongchon
Senior Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496771
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093197-2

Sample Number	2496771-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9:16 AM							
Sample Description								
Contract ID	L ESIE_165_2550 Plot S-28A							Site Linde (Thailand) PLC
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 A, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.15	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0001	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 C b	Bangkok	
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.22	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Technical Management

Savitree N.

Savitree Nongman
Manager
โทรศัพท์ 0-204-0000

Approved by

Kanokorn A.

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-0000

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496771
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093197-2

Sample Number	2496771-1							Page 1 of 2
Sampled Date	Sep 04, 2024 9:26 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_165_2550		Plot S-28A		Site Linde (Thailand) PLC			
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.008	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	0.0008	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.35	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Phongsit Sathitachai, Pattarapol Sawangjittam, and others

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

Technical Management

Savitree N.

Savitree Nongman
Manager
โทรศัพท์ 0-204-0000

Approved by

Kanokorn A.

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-0000

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496771
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093197-3

Sample Number	2496771-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9:26 AM							
Sample Description	Wastewater							
Contract ID	L ESIE_165_2550		Plot	S 28A		Site	Linde (Thailand) PLC	
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.62	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (2)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Phongsit Sathitachai, Pattarapol Sawangjittam

Remarks:
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / (LOQ (Limit of Reporting))
Analyte(s) marked * where not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Savitree N.

Savitree Nongman
Manager
โทรศัพท์ 0-204-0000

Approved by

Savitree N.

Savitree Nongman
Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496772
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093198-1

Page 1 of 2

Sample Number	2496772-1									
Sampled Date	Sep 04, 2024 9:36 AM									
Sample Description	Wastewater									
Contract ID	L_ESTIE_115_2550		Plot	S-27		Site	OWARI SEIKI (THAILAND) Co.,Ltd			
Date Analysis Commenced	Sep 04, 2024									
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)									
Physical Property	Yellow, a lot of odour, some solid and turbid									
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location			
Water Testing										
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.5	≤500	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	220	≤750	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	110	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong			
Color (at pH 7.0)	ADMI	-	5	107	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong			
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong			
Formaldehyde	mg/L	0.01	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong			
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong			
pH (on site) *	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong			

Technical Management

Photchanna S.

Approved by

Dr. Ounghon

Dr. Ounghon
Senior Manager
ติดต่อเรา 3-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496772
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093198-1

Page 2 of 2

Sample Number	2496772-1										Page 1 of 1
Sample Date	Sep 04, 2024 9:36 AM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_115_2550		Plot	S-27		Site	OWARI SEIKI (THAILAND) Co.,Ltd				
Date Analysis Commenced	Sep 04, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
Phenol	mg/L	0.005	0.01	0.09	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong				
Temperature *	Degree C			28.9	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong				
Total Dissolved Solids Dried at 180 degree C	mg/L		≤	456	≤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			≤	53	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong				
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates Sampling By : Phongsitthak Sittichol 3-323-4-0023, Patrapol Sawangjantam 3-323-4-0002											
Remark : LOD : Limit of Detection * : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting) Analysis marked * where not included in scope of Accreditation ISO/IEC 17025 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.											

Technical Management

Photchanna S.

Approved by

Dr. Ounghon

Dr. Ounghon
Senior Manager
ติดต่อเรา 3-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496772
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093198-2

Page 1 of 2

Sample Number	2496772-1										Page 1 of 2
Sampled Date	Sep 04, 2024 9:36 AM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_115_2550		Plot S-27		Site OWARI SEIKI (THAILAND) Co., Ltd						
Date Analysis Commenced	Sep 05, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3100 C-B	Bangkok				
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0031	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Technical Management

Savitree N.

Approved by

Karokorn Anet

Karokorn Anet
Assistant General Manager
ติดต่อเรา 3-323-4-0004

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496772
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093198-2

Page 2 of 2

Sample Number	2496772-1										Page 2 of 2
Sample Date	Sep 04, 2024 9:36 AM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_115_2550 Plot S-27 Site OWARI SEIKI (THAILAND) Co., Ltd										
Date Analysis Commenced	Sep 05, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, some solid and turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok				
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	0.0006	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.003	0.005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Phongsitthak Sittichol 3-323-4-0023, Patrapol Sawangjantam 3-323-4-0002

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analysis marked * where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.

Approved by

Karokorn Anet

Karokorn Anet
Assistant General Manager
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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496772
Date Received Sep 04, 2024
Date Reported Sep 11, 2024
Report Number 3993199-3

Sample Number	2496772-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9 36 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_115_2550		Plot	5-27	Site	OWARU SEIKI (THAILAND) Co.,Ltd		
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.30	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (B)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Phongsit Sathitakul Pattarapol Sawangajitum
Remarks:
LOD Limit of Detection
LOQ Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by

Savitree N.
Savitree Nongniam
Manager



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496773
Date Received Sep 04, 2024
Date Reported Sep 10, 2024
Report Number 3993200-1

Sample Number	2496773-1							Page 1 of 2
Sampled Date	Sep 04, 2024 9:47 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_066_2550		Plot	5-26	Site	Ingress Autoventures Co.,Ltd		
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	44.2	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - C G	Rayong	
COD	mg/L	1.5	25	79	≤750	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	18	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	ADMI	-	5	17	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-C (C, E)	Rayong	
Formaldehyde	mg/L	0.02	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong	

Technical Management

Photchan S.
Photchan S.
Manager
Mobile: 09-3273-0002

Approved by

Dej Chongchun
Dej Chongchun
Senior Manager
Mobile: 09-3233-0001

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496773
Date Received Sep 04, 2024
Date Reported Sep 10, 2024
Report Number 3993200-1

Sample Number	2496773-1							Page 2 of 2
Sampled Date	Sep 04, 2024 9:47 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_066_2550		Plot	S-26		Site	Ingress Autoventures Co.,Ltd	
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	29.3	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 B	Rayong	
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	154	≤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	17	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Phongsit Sathitakul Pattarapol Sawangajitum Mobile: 09-3233-0002

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

Technical Management

Photchan S.
Photchan S.
Manager
Mobile: 09-3273-0002

Approved by

Dej Chongchun
Dej Chongchun
Senior Manager
Mobile: 09-3233-0001



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496773
Date Received Sep 04, 2024
Date Reported Sep 11, 2024
Report Number 3993200-2

Sample Number	2496773-1							Page 1 of 1
Sampled Date	Sep 04, 2024 9:47 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_066_2550		Plot 5-26		Site			Ingress Autoventures Co., Ltd
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.11	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.008	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Lead	mg/L	0.0003	0.0005	0.0007	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Technical Management

Savitree N.
Savitree Nongniam
Manager
Mobile: 09-3273-0002

Approved by

Kanokorn Anon
Kanokorn Anon
Assistant General Manager
Mobile: 09-3233-0004

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TESTING

No 0009

Lot ID: 2496773

Date Received : Sep 04, 2024

Date Reported : Sep 11, 2024

Report Number : 3093200-2

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2496773-1							Page 2 of 2
Sampled Date	Sep 04, 2024 9:47 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_066_2550		Plot	S 26	Site	Ingress Autoventures Co.,Ltd		
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.0010	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsath Sathithon มัธยมศึกษาปีที่ 323 ส-0023 , Pattarapol Sawengatam มัธยมศึกษาปีที่ 204 ส-0002

Remark

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / 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

Savitree N.

Service Manager em

มือถือ 09-00000000

Approved by

Kanokorn Anon

Assistant General Manager

มือถือ 09-00000000

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TESTING

No 0042

Lot ID: 2496774

Date Received : Sep 03, 2024

Date Reported : Sep 10, 2024

Report Number : 3093202-1

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2496774-1							Page 2 of 2
Sampled Date	Sep 03, 2024 2:05 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_001_2555		Plot	EM05-06	Site	VICTORIA TYRES (THAILAND) CO. LTD		
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	28.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O-G	Rayong	
COO	mg/L	1.5	25	121	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	ADU	-	5	36	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	ADU	-	5	34	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong	
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong	
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	6.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - B	Rayong	

Technical Management

Photchana S.

Service Manager

มือถือ 09-00000000

Approved by

Dej Changchon

Senior Manager

มือถือ 09-00000000

Life Sciences

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Analysis / Test Report



TESTING

No 0008

Lot ID: 2496773

Date Received : Sep 04, 2024

Date Reported : Sep 11, 2024

Report Number : 3093200-3

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number	2496773-1							Page 2 of 2
Sampled Date	Sep 04, 2024 9:47 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_066_2550		Plot	S-26	Site	Ingress Adventures Co. Ltd		
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.95	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 D, 3030 F	Bangkok	
Water Testing								
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong	
Guideline: Notification of the Industrial Estate Authority of Thailand No 829/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.								
Sampling By: Phengthep Sethiwan , Pottaporn Sawangziam								
Remark:								
1. LOD : Limit of Detection								
2. " <" : Lower than LOD (Limit of Quantification) / LOR (Limit of Reporting)								
3. Analyte(s) marked * indicate not included in scope of Accreditation ISO/IEC 17025.								
4. The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025								

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsath Sathithon มัธยมศึกษาปีที่ 323 ส-0023 , Pattarapol Sawengatam มัธยมศึกษาปีที่ 204 ส-0002

Remark

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantification) / 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

Savitree N.

Service Manager em

มือถือ 09-00000000

Approved by

Savitree N.

Service Manager em

มือถือ 09-00000000

Life Sciences

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Analysis / Test Report

TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

Lot ID: 2496774
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093202-2

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496774-1
Sampled Date : Sep 03, 2024 2:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2555 Plot : EM05-06 Site : VITTORIA TYRES (THAILAND) CO., LTD
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.14	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.04	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Sawitree N.

Sawitree Nongniam
Manager
โทรศัพท์ : 0204-4-0007

Approved by

Kankom Anok

Kankom Anok
Assistant General Manager
โทรศัพท์ : 0204-4-0004

Analysis / Test Report

TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

Lot ID: 2496774
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093202-2

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496774-1
Sampled Date : Sep 03, 2024 2:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2555 Plot : EM05-06 Site : VITTORIA TYRES (THAILAND) CO., LTD
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	<0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanuyoo Chumphakhe วิศวกร 323-4-0020, Samart Khumpluee วิศวกร 324-4-0084

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * : value 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

Sawitree N.

Sawitree Nongniam
Manager
โทรศัพท์ : 0204-4-0007

Approved by

Kankom Anok

Kankom Anok
Assistant General Manager
โทรศัพท์ : 0204-4-0004



Analysis / Test Report

TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

Lot ID: 2496775
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093204-1

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496775-1
Sampled Date : Sep 03, 2024 2:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_006_2551 Plot : 1-11 Site : 2F CV Solutions (Thailand) Limited
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.72	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanuyoo Chumphakhe วิศวกร 323-4-0020, Samart Khumpluee วิศวกร 324-4-0084

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

Analysis / Test Report

TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

Lot ID: 2496775
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093204-1

P/O :
Project Name : Random Check
Project Location : ESIE

Sample Number : 2496775-1
Sampled Date : Sep 02, 2024 9:54 AM
Sample Description : Wastewater
Contract ID : L_ESIE_006_2551 Plot : 1-11 Site : 2F CV Solutions (Thailand) Limited
Date Analysis Commenced : Sep 02, 2024
Condition of Sample : Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	2.0	72.1	500	≤500	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	208	≤750	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	117	500	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	5	114	500	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	3	10	510	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				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

Technical Management

Chontichak

Chontichak Subongchok
Scientist (3)
โทรศัพท์ : 323-4-0001

Approved by

Dhanon

Dhanon Chongchong
Senior Manager
โทรศัพท์ : 323-4-0001



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0042
Lot ID: 2496775
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093204-1

Page 1 of 2

Sample Number	2496775-1										Page 2 of 2
Sampled Date	Sep 02, 2024 9:54 AM										
Sample Description	Wastewater										
Contract ID	L-ESIE-006_2561										
Plot	I-11										
Site	ZF CV Solutions (Thailand) Limited										
Date Analysis Commenced	Sep 02, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA). Yellow, a lot of odour, solid and some turbid										
Physical Property											
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
Phenol	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5550 D	Rayong				
Temperature	Degree C	+		30.1	≤45	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	236	≤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	40	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Khumrit วิสาณ ขุหมริ 1-323-4-0019, Karnduend Knapapavank วิสาณ ขุหมริ 1-204-4-0001

Remark :
LOD : Limit of Detection
+ : Lower than LOD (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method + : value 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

Chontichak
Chonticha Subongkorn
Scientist (S)
วิสาณ ขุหมริ 1-323-4-0021

Approved by

Dej Changchon
Senior Manager
วิสาณ ขุหมริ 1-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0009
Lot ID: 2496775
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093204-2

Page 1 of 2

Sample Number	2496775-1										Page 1 of 2
Sampled Date	Sep 02, 2024 9:54 AM										
Sample Description	Wastewater										
Contract ID	L-ESIE-006_2561		Plot	I-11		Site	ZF CV Solutions (Thailand) Limited				
Date Analysis Commenced	Sep 03, 2024										
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C-6	Bangkok				
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Technical Management

Savitree N.
Savitree Nongkham
Manager
วิสาณ ขุหมริ 1-204-4-0007

Approved by

Karnduend Knapapavank
Assistant General Manager
วิสาณ ขุหมริ 1-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0009
Lot ID: 2496775
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093204-2

Page 2 of 2

Sample Number	2496775-1							Page 2 of 2
Sampled Date	Sep 02, 2024 9:54 AM							
Sample Description	Wastewater							
Contract ID	L-ESIE-006_2561		Plot	I 11		Site	ZF CV Solutions (Thailand) Limited	
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analysis	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.12	≤5.0	Standard Method for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Khumrit วิสาณ ขุหมริ 1-323-4-0019, Karnduend Knapapavank วิสาณ ขุหมริ 1-204-4-0001

Remark :
LOD : Limit of Detection
+ : Lower than LOD (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method + : value 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

Savitree N.
Savitree Nongkham
Manager
วิสาณ ขุหมริ 1-204-4-0007

Approved by

Karnduend Knapapavank
Assistant General Manager
วิสาณ ขุหมริ 1-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0009
Lot ID: 2496775
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093204-3

Page 1 of 1

Sample Number	2496775-1							Page 1 of 3
Sampled Date	Sep 02, 2024 9:54 AM							
Sample Description	Wastewater							
Contract ID	L-ESIE-006_2561	Plot	I-11	Site	ZF CV Solutions (Thailand) Limited			
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.77	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F ⁺	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Khumrit วิสาณ ขุหมริ 1-323-4-0019, Karnduend Knapapavank วิสาณ ขุหมริ 1-204-4-0001

Remark :
LOD : Limit of Detection
+ : Lower than LOD (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method + : value 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

Savitree N.
Savitree Nongkham
Manager
วิสาณ ขุหมริ 1-204-4-0007

Approved by

Karnduend Knapapavank
Assistant General Manager
วิสาณ ขุหมริ 1-204-4-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0042
Lot ID: 2496776
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093205-1

Page 1 of 1

Sample Number	2496776-1									Page 1 of 1
Sampled Date	Sep 02, 2024 2:42 PM									
Sample Description	Wastewater									
Contract ID	L_ESTIE_055_2550 Plot 1-02									Site GKN DriveLine (Thailand) Ltd
Location	Factory 2									
Date Analysis Commenced	Sep 02, 2024									
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).									
Physical Property	Colorless, some odour, solid and no turbid									
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	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 5200-G	Rayong			
COD	mg/L	15	25	30	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong			
Color (at Original pH)	ADMU	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong			
Color (at pH 7.0)	ADMU	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong			
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong			
Formaldehyde	mg/L	0.01	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong			
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong			
pH (on site) *		-	-	7.3	6.5-8.5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-A (B)	Rayong			

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
มือถือ 09-3234-0001

Approved by

Dej Changchon
Senior Manager
มือถือ 09-3234-0001



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0042
Lot ID: 2496776
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093205-1

Page 2 of 2

Sample Number	2496776-1									Page 1 of 1
Sampled Date	Sep 02, 2024 2:42 PM									
Sample Description	Wastewater									
Contract ID	L_ESIE_055_2550		Plot 1-02	Site	GKN DriveLine (Thailand) Ltd					
Location	Factory 2									
Date Analysis Commenced	Sep 02, 2024									
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA). Colorless, some odour, solid and no turbid									
Physical Property										
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location			
Water Testing										
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong			
Temperature *	Degree C			29.6	≤45	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			84	≤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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong			
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.										
Sampling By : Wasan Kiatwong 09-3234-0019, Kerdbundit Kiatwongwan 09-3234-0001										
Remarks : 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

Chontichak
Chonticha Subongkroh
Scientist (3)
มือถือ 09-3234-0001

Approved by

Dej Changchon
Senior Manager
มือถือ 09-3234-0001



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0009
Lot ID: 2496776
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093205-2

Page 1 of 2

Sample Number	2496776-1									Page 3 of 8
Sampled Date	Sep 02, 2024 2:42 PM									
Sample Description	Wastewater									
Contract ID	L_ESIE_055_2550			Plot	1-02	Site	GKN DriveLine (Thailand) Ltd			
Location	Factory 2									
Date Analysis Commenced	Sep 03, 2024									
Condition of Sample (APHA / USEPA)	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards									
Physical Property	Colorless, some odour, solid and no turbid									
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Arsenic	mg/L	0.0003	0.0005	0.0006	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3020 G-B	Bangkok			
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			

Technical Management

Savitree N.
Savitree Nongkham
Manager
มือถือ 09-2244-0007

Approved by

Karokorn Anok
Assistant General Manager
มือถือ 09-2244-0004



Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No 0009
Lot ID: 2496776
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093205-2

Page 2 of 2

Sample Number	2496776-1									Page 1 of 2
Sample Date	Sep 02, 2024 2:42 PM									
Sample Description	Wastewater									
Contract ID	L_ESIE_055_2550		Plot	1-02	Site	GKN DriveLine (Thailand) Ltd				
Location	Factory 2									
Date Analysis Commenced	Sep 03, 2024									
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA).									
Physical Property	Colorless, some odour, solid and no turbid									
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location			
Metals Testing										
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok			
Nickel	mg/L	0.0003	0.0005	0.0008	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Zinc	mg/L	0.003	0.005	0.008	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok			
Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.										
Sampling By : Wasan Kiatwong 09-3234-0019, Kerdbundit Kiatwongwan 09-3234-0001										
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

Savitree N.
Savitree Nongkham
Manager
มือถือ 09-2244-0007

Approved by

Karokorn Anok
Assistant General Manager
มือถือ 09-2244-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0009
Lot ID: 2496776
Date Received : Sep 02, 2024
Date Reported : Sep 06, 2024
Report Number : 3093205-3

Page 1 of 1

Sample Number	2496776-1						
Sampled Date	Sep 02, 2024 2:42 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_005_2550 Plot 1-02 Site G99 Driveline (Thailand) Ltd						
Location	Factory 2						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metal Testing							
Iron	mg/L	0.003	0.005	0.05	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Khunvit , Kerdpradit Kulsuwanvit

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOB (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

Results apply to the samples as submitted, unless the sampling was controlled by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.
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Approved by

Savitree N.
Savitree Nongniam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0042
Lot ID: 2496777
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093206-1

Page 1 of 1

Sample Number	2496777-1						
Sampled Date	Sep 04, 2024 10:24 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2550 Plot 1-35,36 Site Aoyama Thai Co. Ltd						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.6	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 O C	Rayong
COD	mg/L	1.8	25	42	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.007	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	<1	Wastewater analysis manual: Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchana S.
Photchana Seeda
Senior Manager
โทร: 02-2496777-323-0028

Approved by

D. Chongchon
Dg Chongchon
Senior Manager
โทร: 02-2496777-323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0042
Lot ID: 2496777
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093206-1

Page 2 of 2

Sample Number	2496777-1							Page 1 of 2
Sampled Date	Sep 04, 2024 10:24 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_006_2550 Plot 1-35.36 Site Aoyama Thai Co.,Ltd							
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	32.0	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4550 B	Rayong	
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1660	≤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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Photchana Seeda โทร: 02-2496777-323-0023, Pannarapet Sawangjatan โทร: 02-2496777-323-0002

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

Photchana S.
Photchana Seeda
Senior Manager
โทร: 02-2496777-323-0028

Approved by

D. Chongchon
Dg Chongchon
Senior Manager
โทร: 02-2496777-323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0009
Lot ID: 2496777
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093206-2

Page 1 of 2

Sample Number	2496777-1						
Sampled Date	Sep 04, 2024 10:24 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2550		Plot	1 35,36	Site	Aoyama Thai Co.,Ltd	
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metal Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.008	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3000-C B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.013	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongniam
Manager
โทร: 02-2496777-323-0007

Approved by

Kanokorn Anuk
Kanokorn Anuk
Assistant General Manager
โทร: 02-2496777-323-0004

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Analysis / Test Report

TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496777
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093206-2

Page 2 of 2

Sample Number	2496777-1							Page 2 of 2
Sampled Date	Sep 04, 2024 10:24 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_006_2550	Plot	1-35,36	Site	Ayayma Thai Co.,Ltd			
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Container: 1 one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Metallic Testing								
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112 F	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.008	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	0.04	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	1.30	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Phongsit Sathitkarn mduwawit 1-323-1-0023, Pattarapol Sawanglatam mduwawit 1-204-1-0002

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOD (Limit of Reporting)
Analyte(s) marked * : Analyte 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

Savitree N.

Savitree Nongsam
Manager
mduwawit 1-204-1-0007

Approved by

Kanikorn Anek

Kanikorn Anek
Assistant General Manager
mduwawit 1-204-1-0004



Analysis / Test Report

TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496777
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093206-3

Page 1 of 1

Page 1 of 8

Sample Number	2496777-1						
Sampled Date	Sep 04, 2024 10:24 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_006_2550	Plot	1-35,36	Site	Ayayma Thai Co Ltd		
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.42	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Phongsit Sathitkarn mduwawit 1-323-1-0023, Pattarapol Sawanglatam mduwawit 1-204-1-0002

Remark :

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

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

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

Results apply to the samples as submitted, unless the laboratory has been notified otherwise. The report is for information only and does not constitute a warranty. The laboratory is not responsible for the accuracy of the data provided by the client.

Approved by

Savitree N.

Savitree Nongsam
Manager
mduwawit 1-204-1-0007



Analysis / Test Report

TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496778
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093209-1

Page 1 of 2

Sample Number	2496778-1									
Sample Date	Sep 02, 2024 11:15 AM									
Sample Description	Wastewater									
Contract ID	L_ESIE_078_2550									
Plot	1-19									
Site	Koonkrin Pentaplast (Thailand) Ltd									
Date Analysis Commenced	Sep 02, 2024									
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)									
Physical Property	Yellow, a lot of odour, some solid and turbid									
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location			
Water Testing										
BOD (5 days at 20 Degree C)	mg/L	-	2.0	70.9	≤500	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	206	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong			
Color (at Original cft)	ADME	-	5	60	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5120 F	Rayong			
Color (at pH 7.0)	ADME	-	5	57	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5120 F	Rayong			
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, F)	Rayong			
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong			
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong			
pH (on site) *	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong			

Technical Management

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Approved by

D. Chongchon

D. Chongchon
Senior Manager
mduwawit 1-323-1-0031



Analysis / Test Report

TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496778
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093209-1

Page 2 of 2

Page 1 of 3

Sample Number	2496778-1						
Sampled Date	Sep 02, 2024 11:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_078_2550		Plot	1-19	Site	Koonkrin Pentaplast (Thailand) Ltd	
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.07	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.2	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	204	≤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 105-105 degree C	mg/L	-	5	56	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanai Kinnit มณีนุช 1-323-1-0019 , Kanbunthi Kiataporn มณีนุช 1-204-1-0001

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOD (Limit of Reporting)
Analyte(s) marked * : Analyte 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



TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496778
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093209-2

Page 1 of 2

Sample Number : 2496778-1
Sampled Date : Sep 02, 2024 11:15 AM
Sample Description : Wastewater
Contract ID : L_ESIE_078_2550 Plot : I-19 Site : Kloeckner Pentaplast (Thailand) Ltd
Date Analysis Commenced : Sep 03, 2024
Condition of Sample : Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0002	0.0005	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Calcium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.08	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
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โทรศัพท์ : 234-4-0007

Approved by

Kanokkorn Anik
Assistant General Manager
โทรศัพท์ : 204-4-0004

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TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496778
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093209-2

Page 1 of 2

Sample Number : 2496778-1
Sampled Date : Sep 02, 2024 11:15 AM
Sample Description : Wastewater
Contract ID : L_ESIE_078_2550 Plot : I-19 Site : Kloeckner Pentaplast (Thailand) Ltd
Date Analysis Commenced : Sep 03, 2024
Condition of Sample : Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.009	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.09	0.09	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.25	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kinunti รหัสประจำตัว : 323-4-0019, Karabundit Kitiapavan รหัสประจำตัว : 204-4-0001

Remarks :
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Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Savitree N.
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TESTING

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0008
Lot ID: 2496778
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093209-3

Page 1 of 1

Sample Number : 2496778-1
Sampled Date : Sep 02, 2024 11:15 AM
Sample Description : Wastewater
Contract ID : L_ESIE_078_2550 Plot : I-19 Site : Kloeckner Pentaplast (Thailand) Ltd
Date Analysis Commenced : Sep 03, 2024
Condition of Sample : Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.07	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wasan Kinunti , Karabundit Kitiapavan

Remarks :
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Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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TESTING

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2496779
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093211-1

Page 1 of 1

Sample Number : 2496779-1
Sampled Date : Sep 02, 2024 2:12 PM
Sample Description : Wastewater
Contract ID : L_ESIE_013_2550 Plot : E-14 Site : Auto Alliance (Thailand) Co., Ltd.
Date Analysis Commenced : Sep 02, 2024
Condition of Sample : Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	2.0	10.4	5500		Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500-5 (C)	Rayong
COD	mg/L	1.5	25	32	≤750	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	28	5600		Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at pH 7.0)	ADMI	5	25	5600		Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.006	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2004	Rayong
Oil & Grease	mg/L	2	<3	≤10		Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *			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

Technical Management

Chontichak
Chontichak Suanjan
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Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496779
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093211-1

Sample Number	2496779-1							Page 1 of 1
Sampled Date	Sep 02, 2024 2:12 PM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_013_2550		Plot	E-14	Site	Auto Alliance (Thailand) Co.,Ltd		
Location	Chemical							
Date Analysis Commenced	Sep 02, 2024							
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, some odour, a lot of solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5550 B	Rayong	
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	228	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong	
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisan Kuanthi witsan@als.com, Karundit Kitsupavant witsan@als.com

Remark :
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Analyte(s) marked * : where not included in scope of Accreditation ISO/IEC 17025
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Technical Management

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496779
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093211-2

Sample Number	2496779-1							Page 1 of 1
Sampled Date	Sep 02, 2024 2:12 PM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_013_2550 Plot E-14							Site Auto Alliance (Thailand) Co., Ltd
Location	Chemical							
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, some odour, a lot of solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Calcium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok	
Lead	mg/L	0.0003	0.0005	0.0007	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496779
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093211-2

Sample Number	2496779-1						Page 2 of 2
Sampled Date	Sep 02, 2024 2:12 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_013_2550		Plot	E-14	Site	Auto Alliance (Thailand) Co., Ltd.	
Location	Chemical						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample (APHA / USEPA)	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards						
Physical Property	Yellow, some odour, a lot of solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.27	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisan Kuanthi witsan@als.com, Karundit Kitsupavant witsan@als.com

Remark :
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Analyte(s) marked * : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
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Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE



TESTING

Lot ID: 2496779
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093211-3

Sample Number	2496779-1							Page 1 of 1
Sampled Date	Sep 02, 2024 2:12 PM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_013_2550		Plot E-14		Site		Auto Alliance (Thailand) Co., Ltd	
Location	Chemical							
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, some odour, a lot of solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Iron	mg/L	0.003	0.005	0.43	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F *	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wisan Kuanthi witsan@als.com, Karundit Kitsupavant witsan@als.com

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" < " : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496780
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093212-1

Page 1 of 2

Sample Number	2496780-1										
Sampled Date	Sep 02, 2024 9:11 AM										
Sample Description	Wastewater										
Contract ID	L/ESIE_099_2550 Plot S-290 Site HANON SYSTEMS (Thailand) Co.,Ltd										
Date Analysis Commenced	Sep 02, 2024										
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	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	15	25	28	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong				
Color (at Original pH)	ADMI	-	5	12	≤600	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	10	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CH (C)	Rayong				
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B	Rayong				
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong				
pH (on site) *		-	-	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				

Technical Management

Chontichak
Chonticha Subongkoon
Scientist (3)
มือถือ 09-323-4-0031

Approved by

D. Chongdon
Dey Chongdon
Senior Manager
มือถือ 09-323-4-0001

Result copy to the sampling site is available, unless the sampling was not carried out by ALS. No part of this report may be reproduced or any form without written request from the laboratory. All information given, Thailand, through statements that the result is not intended for use.

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ALC 01/04/2024



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496780
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093212-2

Page 1 of 2

Sample Number	2496780-1										Page 1 of 8
Sampled Date	Sep 02, 2024 9 11 AM										
Sample Description	Wastewater										
Contract ID	L_ESIE_099_2550		Plot	S-290		Site	HANON SYSTEMS (Thailand) Co.,Ltd				
Date Analysis Commenced	Sep 03, 2024										
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.0009	≤ 0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Barium	mg/L	0.0003	0.0005	0.14	≤ 1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	0.0007	≤ 0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.003	≤ 0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤ 0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3550 D-6	Bangkok				
Lead	mg/L	0.0003	0.0005	Not Detected	≤ 0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0003	0.0005	0.09	≤ 0.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Approved by

Savitree N.
Savitree Nongam
Manager

ALC 01/04/2024 Phatthanaikan 40 Phatthanaikan Rd. Chawang Phatthanaikan Htet Suam Luang Bangkok 10250 Thailand TEL: +66 0 2790 3200 FAX: +66 0 2790 3197

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496780
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093212-1

Page 2 of 2

Sample Number	2496780-1										Page 1 of 2
Sampled Date	Sep 02, 2024 9:11 AM										
Sample Description	Wastewater										
Contract ID	L/ESIE_099_2550										
Plot	S-290										
Site	HANON SYSTEMS (Thailand) Co.,Ltd										
Date Analysis Commenced	Sep 02, 2024										
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
Phenol	mg/L	0.005	0.01	0.02	≤ 1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong				
Temperature *	Degree C			29.5	≤ 45	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	146	≤ 3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong				
Total Suspended Solids Dried at 103-105 degree C	mg/L		5	6	≤ 200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasin Kinnit Kambundit Krasupavant

Remark

- LOD : Limit of Detection
- * < : Lower than LOD (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analysis marked * : Value 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

Chontichak
Chonticha Subongkoon
Scientist (3)
มือถือ 09-323-4-0031

Approved by

D. Chongdon
Dey Chongdon
Senior Manager
มือถือ 09-323-4-0001

Result copy to the sampling site is available, unless the sampling was not carried out by ALS. No part of this report may be reproduced or any form without written request from the laboratory. All information given, Thailand, through statements that the result is not intended for use.

100/2551/615/10 Moo 5 T. Manam Klu A. Phukdaeng Rayong 21140 Thailand TEL: +66 0 3204 8555 FAX: +66 0 3204 8556 E-MAIL: als@alsglobal.com

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496780
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093212-2

Page 2 of 2

Sample Number	2496780-1										Page 2 of 2
Sampled Date	Sep 02, 2024 9:11 AM										
Sample Description	Wastewater										
Contract ID	L/ESIE_099_2550		Plot	S-290		Site	HANON SYSTEMS (Thailand) Co., Ltd				
Date Analysis Commenced	Sep 03, 2024										
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0001	0.0005	< 0.0005	≤ 0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok				
Nickel	mg/L	0.0003	0.0005	0.003	≤ 0.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	Not Detected	≤ 0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Trivalent Chromium *	mg/L		0.01	0.03	≤ 0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.003	0.005	0.02	≤ 0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasin Kinnit Kambundit Krasupavant

Remark

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

Approved by

Savitree N.
Savitree Nongam
Manager

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496780
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093212-3

Sample Number	2496780-1						Page 1 of 8
Sampled Date	Sep 02, 2024 11 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_039_2550	Plot	S 250	Site	HANON SYSTEMS (Thailand) Co., Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analysite	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.09	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.7	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (5)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wason Kruand, Kerdwut Kittsupavent
Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked "L" were not included in scope of Accreditation (ISO/IEC 17025)
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by

Savitree N.
Savitree Nonsangam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496781
Date Received : Sep 09, 2024
Date Reported : Sep 09, 2024
Report Number : 3093214-1

Sample Number	2496781-1					
Sampled Date	Sep 02, 2024 10 59 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_203_2550		Plot	I-36	Site	Yuanda Electronic (Thailand) Co.,Ltd
Date Analysis Commenced	Sep 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Purple, a lot of odour, some solid and a lot of turbid					
Analysite	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500-C O
COD	mg/L	1.5	25	113	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D
Color (at Original pH)	ADMI	-	5	96	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Color (at pH 7.0)	ADMI	-	5	92	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
Oil & Grease	mg/L	3	6	-	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
pH (on site) *	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)

Technical Management

Chonticha N.
Chonticha Subongkroh
Scientist (3)
ms0000001-323-0001

Approved by

D. Chantorn
Dy. Chantorn
Senior Manager
ms0000001-323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496781
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093214-1

Sample Number	2496781-1						
Sampled Date	Sep 02, 2024 10:59 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_203_2550	Plot	I-36	Site	Yuanda Electronic (Thailand) Co., Ltd		
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Purple, a lot of odour, some solid and a lot of turbid						
Analysite	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.08	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.6	≤45	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	-	3	340	≤1000	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	-	3	20	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wason Kruand, ms0000001-323-0001, Kerdwut Kittsupavent, ms0000001-323-0001

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked "L" were 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

Chonticha N.
Chonticha Subongkroh
Scientist (3)
ms0000001-323-0001

Approved by

D. Chantorn
Dy. Chantorn
Senior Manager
ms0000001-323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

Lot ID: 2496781
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093214-2

Sample Number	2496781-1						Page 1 of 1
Sampled Date	Sep 02, 2024 10:59 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_203_2550	Plot	I-36	Site	Yuanda Electronic (Thailand) Co., Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Purple, a lot of odour, some solid and a lot of turbid						
Analysite	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.01	0.04	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3000-C O	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nonsangam
Manager
ms0000001-323-0001

Approved by

Kanokorn A.
Kanokorn Anek
Assistant General Manager
ms0000001-323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2496781
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 1093214 2

Page 2 of 2

Sample Number	2496781-1										
Sampled Date	Sep 02, 2024 10:59 AM										
Sample Description	Wastewater										
Contract ID	L_ESTIE_203_2550		Plot	I-36	Site	Yuanda Electronic (Thailand) Co. Ltd					
Date Analysis Commenced	Sep 03, 2024										
Condition of Sample	Contained in two glass vials-one amber glass bottle and five plastic bottles.sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Purple, a lot of odour, some solid and a lot of turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok				
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok				

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnuati รหัสประจำตัว 1-323-1-0019 , Kardsundit Kitsuapavanit รหัสประจำตัว 1-204-1-0001

Remarks
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Savitree N.
Savitree Nossangam
Manager
รหัสประจำตัว 1-204-1-0007

Approved by

Karokkom Anik
Karokkom Anik
Assistant General Manager
รหัสประจำตัว 1-204-1-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 2496781
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 1093214 3

Page 1 of 1

Sample Number	2496781-1						
Sampled Date	Sep 02, 2024 10:59 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_203_2550		Plot	I-36	Site	Yuanda Electronic (Thailand) Co.,Ltd	
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in two glass vials-one amber glass bottle and five plastic bottles sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Purple, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.47	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnuati , Kardsundit Kitsuapavanit

Remarks
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Approved by

Savitree N.
Savitree Nossangam
Manager

112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong Thailand 21140



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2496783
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 1093216-1

Page 1 of 2

Sample Number	2496783-1							
Sampled Date	Sep 02, 2024 10:51 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_149_2550		Plot	I-43	Site	Stars Technologies Industrial Ltd		
Date Analysis Commenced	Sep 02, 2024							
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Black, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	28.0	≤500	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	78	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	ADNU	-	5	28	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	ADNU	-	5	28	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong	
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 2nd ed., 2004	Rayong	
Oil & Grease	mg/L	3	5	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and	Rayong	

Technical Management

Chontichak
Chonticha Subongkitch
Senior Manager
รหัสประจำตัว 1-323-1-0021

Approved by

Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว 1-323-1-0001

112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong Thailand 21140



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 2496783
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 1093216-1

Page 2 of 2

Sample Number	2496783-1							Page 1 of 1
Sampled Date	Sep 02, 2024 10 51 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_149_2550		Plot	I-43		Site	Stars Technologies Industrial Ltd.	
Date Analysis Commenced	Sep 02, 2024							
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Black, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.08	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	34.2	≤45	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	460	≤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	17	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnuati รหัสประจำตัว 1-323-1-0019 , Kardsundit Kitsuapavanit รหัสประจำตัว 1-204-1-0001

Remarks
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : where not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Chontichak
Chonticha Subongkitch
Senior Manager
รหัสประจำตัว 1-323-1-0021

Approved by

Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว 1-323-1-0001

112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong Thailand 21140



Analysis / Test Report

TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496783
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093216-2

Sample Number	2496783-1					Page 1 of 2	
Sampled Date	Sep 02, 2024 10:51 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_149_2559		Plot 1-43	Site	Stars Technologies Industrial Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Black, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0006	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Approved by

Kanokorn Anok

Kanokorn Anok
Assistant General Manager
โทรศัพท์ 1-204-4-0004

112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

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TESTING

No 0009

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496783
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093216-3

Sample Number	2496783-1							Page 1 of 2
Sampled Date	Sep 02, 2024 10:51 AM							
Sample Description	Wastewater							
Contract ID	LSE_E-149_2550		Plot 1-43	Site : Stars Technologies Industrial Ltd.				
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Black, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location	
Metallic Testing								
Iron	mg/L	0.003	0.005	3.15	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Water Testing								
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnulit Kambudat Kinsupavanat

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

Approved by

Savitree N.

Savitree Nongnang
Manager

112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

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TESTING

No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496783
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093216-2

Sample Number	2496783-1						Page 2 of 2
Sampled Date	Sep 02, 2024 10 51 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_149_2550		Plot 1-43		Site : Stars Technologies Industrial Ltd		
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Black, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wasan Kinnulit Kambudat Kinsupavanat โทรศัพท์ 1-204-4-0004

Remarks
* LOD : Limit of Detection
* <LOD : Lower than LOD (Limit of Quantitation) / LOD (Limit of Reporting)
* Analyte(s) marked * were 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

Savitree N.

Approved by

Kanokorn Anok

Kanokorn Anok
Assistant General Manager
โทรศัพท์ 1-204-4-0004

112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

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Analysis / Test Report

TESTING

No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496784
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093216-1

Sample Number	2496784-1							Page 1 of 2
Sampled Date	Sep 04, 2024 3:30 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_001_2550		Plot P-01		Site Adaku Fine Chemical (Thailand) Co. Ltd.			
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, some solids and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.2	≤500	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	100	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong	
Color (at Original pH)	ADME	-	5	46	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Color (at pH 7.0)	ADME	-	5	46	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 CH (C, 1)	Rayong	
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2004	Rayong	
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 5520 B	Rayong	
pH (on site) *	-	-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 4500 - H (B)	Rayong	

Technical Management

Photchanas S.

Approved by

D. Chongchong

Dej Chongchong
Senior Manager
โทรศัพท์ 1-223-4-0001

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P/O :
Project Name : Random Check
Project Location : ESIE

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2496785
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093223-1

Sample Number	2496785-1						
Sampled Date	Sep 03, 2024 3:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_009_2550 Plot E 05 Site FTS AUTOMOTIVE (THAILAND) CO., LTD						
Location	Chemical						
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, odourless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5110 B, part 5100.0 C	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5120 D	Rayong
Color (at Original pH)	ADME		5	<5	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADME		5	<5	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Oil & Grease	mg/L			<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Photchanha S.

Photchanha Seeds
Scientist (A)
มอดูลฐาน 1-323-4-0028

Approved by

D. Changchon

D. Changchon
Senior Manager
มอดูลฐาน 1-323-4-0001

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 2496785
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093223-1

Sample Number	2496785-1							Page 2 of 3
Sampled Date	Sep 03, 2024 3:25 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_009_2550		Plot	E-05	Site	FTS AUTOMOTIVE (THAILAND) CO.,LTD		
Location	Chemical							
Date Analysis Commenced	Sep 03, 2024							
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Colorless, odourless, some solid and no turbid							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong	
Temperature *	Degree C	-	-	29.7	5-45	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	1130	≤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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Warunyo Chumphae มอดูลฐาน 1-323-4-0020, Samart Khumphae มอดูลฐาน 1-204-4-0084

Notes:
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

Photchanha S.

Photchanha Seeds
Scientist (A)
มอดูลฐาน 1-323-4-0028

Approved by

D. Changchon

D. Changchon
Senior Manager
มอดูลฐาน 1-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496785
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093223-2

Sample Number	2496785-1						
Sampled Date	Sep 03, 2024 3:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_009_2550		Plot	E-05	Site	FTS AUTOMOTIVE (THAILAND) CO.,LTD	
Location	Chemical						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, odourless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0033	0.0005	<0.0005	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.15	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3030 C B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.003	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.

Chanattaporn Imchan
Section Head
มอดูลฐาน 1-204-4-0088

Approved by

Kanokorn Anik

Kanokorn Anik
Assistant General Manager
มอดูลฐาน 1-204-4-0084

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 2496785
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093223-2

Page 1 of 2

Sample Number	2496785-1						
Sampled Date	Sep 03, 2024 3:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_009_2550 Plot E-05 Site FTS AUTOMOTIVE (THAILAND) CO.,LTD						
Location	Chemical						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, odourless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	0.02	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.83	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Warunyo Chumphae มอดูลฐาน 1-323-4-0020, Samart Khumphae มอดูลฐาน 1-204-4-0084

Notes:
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

Chanatt L.

Chanattaporn Imchan
Section Head
มอดูลฐาน 1-204-4-0088

Approved by

Kanokorn Anik

Kanokorn Anik
Assistant General Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2496785
Date Received : Sep 03, 2024
Date Reported : Sep 10, 2024
Report Number : 3093223-3

Page 1 of 1

Sample Number	2496785-1						
Sampled Date	Sep 03, 2024 3:25 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_009_2550		Plot	E-05	Site	PTS AUTOMOTIVE (THAILAND) CO., LTD	
Location	Chemical						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, odorless, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.03	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chiraphake, Samart Khumphae

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

Results shown in this laboratory are accurate within the specified limits of detection and accuracy. The results are not to be used for legal purposes.

Approved by

Chantichak L.
Chanatagarn Jindom
Section Head

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2496786
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093224-1

Page 1 of 1

Sample Number	2496786-1						
Sampled Date	Sep 02, 2024 2:26 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_126_2550 Plot E-15A Site Rayong Galvanizing Co.,Ltd						
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and six plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	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	≤750	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	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong
Formaldehyde	mg/l	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Suongkach
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changdon
Senior Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2496786
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093224-1

Page 2 of 2

Sample Number	2496786-1						
Sampled Date	Sep 02, 2024 2:26 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_126_2550	Plot	E-15A	Site	Rayong Galvanizing Co. Ltd		
Date Analysis Commenced	Sep 02, 2024						
Condition of Sample	Contained in one amber glass bottle and six plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 D	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	98	≤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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Niran Kimura โทรศัพท์ 3-323-4-0019, Kerdwong Kiatavakarn โทรศัพท์ 3-324-4-0001

Remark :
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Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Chontichak
Chonticha Suongkach
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2496786
Date Received : Sep 02, 2024
Date Reported : Sep 09, 2024
Report Number : 3093224-2

Page 1 of 2

Sample Number	2496786-1						
Sampled Date	Sep 02, 2024 2:26 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_126_2550		Plot	E-15A		Site	Rayong Galvanizing Co. Ltd
Date Analysis Commenced	Sep 03, 2024						
Condition of Sample	Contained in one amber glass bottle and six plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Caesium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.0006	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500 C	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongkarn
Manager
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Approved by

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Assistant General Manager
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TESTING
N = 2000

Lot ID: 2496786
Date Received: Sep 02, 2024
Date Reported: Sep 09, 2024
Report Number: 3093224-2

Page 2 of 2

[illegible]

Remark :
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 Analyte(s) marked "n" are not included in scope of Accreditation ISO/IEC 17025
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Remark

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- " < " : 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

Kanokorn Anoi
Assistant General Manager
โทรคมนาคมฯ ๖ 204-๓-0004

Sawtree Noisangla
Manager

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TESTING

Lot ID: 2496787
Date Received : Sep 09, 2024
Date Reported : Sep 10, 2024
Report Number : J09J225-1

Page 6 of 22

Sample Number	249676-F-1					
Sampled Date	Sep 04, 2024 9:23 AM					
Sample Description	Wastewater					
Contract ID	L_ESE_011_2560 Plot R.03A.03H Site Gulf TSI Co., Ltd.					
Location	เขต 1 กรุงเทพมหานคร บางนา					
Date Analysis Commenced	Sep 04, 2024					
Condition of Sample	Contained in six amber glass bottles, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, some odour, solid and no turbid					
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method
Water Testing						
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D
Temperature	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	208	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C
Total Suspended Solids Dried at 105-155 degree C	mg/L	-	5	<15	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D

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

Dej Changchen
Senior Manager
ทะเบียนเลขที่ 1-323-ค 0001

Dej Changchon
Senior Manager
โทร: 02-262-323-๘

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0009
Lot ID: 2496787
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093225-2

Page 1 of 1

Sample Number 2496787-1
Sampled Date Sep 04, 2024 9:23 AM
Sample Description Wastewater
Contract ID L-ESIE-011-2560 Plot R-03A-03B Site Gulf TSI Co., Ltd.
Location well 1 ใต้ฐานหินธรรมชาติด้านซ้าย
Date Analysis Commenced Sep 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property preservation standards (APHA, USEPA)
Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	<0.0005	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management
Savitree N.
Savitree Nongsingam
Manager
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Kankhrom Anek
Assistant General Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0009
Lot ID: 2496787
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093225-2

Page 1 of 1

Sample Number 2496787-1
Sampled Date Sep 04, 2024 9:23 AM
Sample Description Wastewater
Contract ID L-ESIE-011-2560 Plot R-03A-03B Site Gulf TSI Co., Ltd.
Location well 1 ใต้ฐานหินธรรมชาติด้านซ้าย
Date Analysis Commenced Sep 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property preservation standards (APHA, USEPA)
Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.021	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawat Achornprommarat รหัสประจำตัว : 323 + 0006 , Kanchanon Kiatpavanant รหัสประจำตัว : 204 + 0001

Remarks:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * : value 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
Savitree N.
Savitree Nongsingam
Manager
มือถือ 09-0000000000

Approved by
Kankhrom Anek
Assistant General Manager
มือถือ 09-0000000000

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0042
Lot ID: 2496789
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093227-3

Page 1 of 1

Sample Number 2496789-1
Sampled Date Sep 04, 2024 9:23 AM
Sample Description Wastewater
Contract ID L-ESIE-011-2560 Plot R-03A-03B Site Gulf TSI Co., Ltd.
Location well 1 ใต้ฐานหินธรรมชาติด้านซ้าย
Date Analysis Commenced Sep 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property preservation standards (APHA, USEPA)
Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.40	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawat Achornprommarat รหัสประจำตัว : 323 + 0006 , Kanchanon Kiatpavanant รหัสประจำตัว : 204 + 0001

Remarks:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * : value not included in scope of Accreditation ISO/IEC 17025
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Approved by
Savitree N.
Savitree Nongsingam
Manager

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No 0042
Lot ID: 2496789
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093227-3

Page 1 of 1

Sample Number 2496789-1
Sampled Date Sep 04, 2024 10:14 AM
Sample Description Wastewater
Contract ID L-ESIE-011-2560 Plot R-04 Site Gulf TSI Co., Ltd.
Location well 1 ใต้ฐานหินธรรมชาติด้านซ้าย
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property preservation standards (APHA, USEPA)
Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	2.0	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500-5 O-G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADME	5	7	7	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADME	5	7	7	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	3	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (in situ) *				8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Rayong

Technical Management
Photchanan S.
Photchanan Seeda
Senior TTA
มือถือ 09-0000000000

Approved by
Dej Chanchon
Senior Manager
มือถือ 09-0000000000

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0042
Lot ID: 2496789
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093227-1

Page 1 of 2

Sample Number	2496789-1						
Sampled Date	Sep 04, 2024 10:14 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2560 Plot R.04 Site Gulf TSE Co.,Ltd						
Location	พื้นที่ 1 อุตสาหกรรมอุตสาหกรรมสาธิต						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 1920 B	Rayong
Total Dissolved Solids Dried at 180 degrees C	mg/L	-	5	170	≤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	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Nattawat Athomprammarat นววิไลวัฒน์ 323-0006 , Karabundit Kiatpavanit นววิไลวัฒน์ 324-0001

Remark

- LOD : Limit of Detection
- * : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
- Analyte(s) marked * value 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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Scientist (4)
นพวิไลวัฒน์ 323-0001

Approved by

D. Chongchong

Dig Chongchong
Senior Manager
นพวิไลวัฒน์ 323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0009
Lot ID: 2496789
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093227-2

Page 1 of 2

Sample Number	2496789-1						
Sampled Date	Sep 04, 2024 10 14 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2560		Plot R.04	Site	Gulf TSE Co., Ltd		
Location	พื้นที่ 1 อุตสาหกรรมอุตสาหกรรมสาธิต						
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0008	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Sawitree N.

Sawitree Nongnang
Manager
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Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
นพวิไลวัฒน์ 324-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0009
Lot ID: 2496789
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093227-3

Page 1 of 2

Sample Number	2496789-1						
Sampled Date	Sep 04, 2024 10:14 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2560		Plot	R.04	Site	Gulf TSE Co., Ltd	
Location	พื้นที่ 1 อุตสาหกรรมอุตสาหกรรมสาธิต						
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.15	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Nattawat Athomprammarat นววิไลวัฒน์ 323-0006 , Karabundit Kiatpavanit นววิไลวัฒน์ 324-0001

Remark

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

Technical Management

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Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING

No.0009
Lot ID: 2496789
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093227-3

Page 1 of 2

Sample Number	2496789-1						
Sampled Date	Sep 04, 2024 10:14 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2560		Plot	R.04	Site	Gulf TSE Co.,Ltd	
Location	พื้นที่ 1 อุตสาหกรรมสาธิต						
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.24	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Nattawat Athomprammarat นววิไลวัฒน์ 323-0006 , Karabundit Kiatpavanit นววิไลวัฒน์ 324-0001

Remark

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

Technical Management

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496790
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093246-1

Page 1 of 2

Sample Number 2496790-1
Sampled Date Sep 04, 2024 1:50 PM
Sample Description Wastewater
Contract ID L-ESIE_009_2560 Plot E-23,24,25 Site Gulf VTP Co., Ltd
Location เลขที่ 1 ถนนพหลโยธิน ตำบลพุดแดง อำเภูปุTTY Co., Ltd
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210.5, part 5200-G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADME		5	<5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADME		5	<5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl C	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Oil & Grease	mg/L		3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *				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

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
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Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 0-323-4-0001

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S. Seeda, M. Seeda (2024)



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496790
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093246-2

Page 1 of 2

Sample Number 2496790-1
Sampled Date Sep 04, 2024 1:50 PM
Sample Description Wastewater
Contract ID L-ESIE_009_2560 Plot E-23,24,25 Site Gulf VTP Co., Ltd
Location เลขที่ 1 ถนนพหลโยธิน ตำบลพุดแดง อำเภูปุTTY Co., Ltd
Date Analysis Commenced Sep 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.15	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.15	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nonsiam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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S. Seeda, M. Seeda (2024)



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

Analysis / Test Report



TESTING

Lot ID: 2496790
Date Received : Sep 04, 2024
Date Reported : Sep 10, 2024
Report Number : 3093246-1

Page 1 of 2

Sample Number 2496790-1
Sampled Date Sep 04, 2024 1:50 PM
Sample Description Wastewater
Contract ID L-ESIE_009_2560 Plot E-23,24,25 Site Gulf VTP Co., Ltd
Location เลขที่ 1 ถนนพหลโยธิน ตำบลพุดแดง อำเภูปุTTY Co., Ltd
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C			31.0	≤45	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	970	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L		5	<5	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Mattavut Anompranmat โทรศัพท์ 0-323-4-0006, Karubundit Kittasupavatt โทรศัพท์ 0-204-4-0001

Remarks
- LOD : Limit of Detection
- <L : Lower than LOD (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analyte(s) marked * : 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

Photchana S.

Photchana Seeda
Scientist (4)
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Approved by

D. Chongchon

Dej Chongchon
Senior Manager
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S. Seeda, M. Seeda (2024)



Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496790
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093246-2

Page 2 of 2

Sample Number 2496790-1
Sampled Date Sep 04, 2024 1:50 PM
Sample Description Wastewater
Contract ID L-ESIE_009_2560 Plot E-23,24,25 Site Gulf VTP Co., Ltd
Location เลขที่ 1 ถนนพหลโยธิน ตำบลพุดแดง อำเภูปุTTY Co., Ltd
Date Analysis Commenced Sep 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Mattavut Anompranmat โทรศัพท์ 0-323-4-0006, Karubundit Kittasupavatt โทรศัพท์ 0-204-4-0001

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

Technical Management

Savitree N.

Savitree Nonsiam
Manager
โทรศัพท์ 0-204-4-0007

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
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S. Seeda, M. Seeda (2024)



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496790
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093226-3

Page 1 of 1

Sample Number	2496790-1												
Sampled Date	Sep 04, 2024 1:50 PM												
Sample Description	Wastewater												
Contract ID	L_ESTIE_009_2560		Plot	E 23.24.25		Site	Gulf VTP Co., Ltd						
Location	ซอย 3 บ้านนาเกลือ/ถนนพหลโยธิน/ถนนสุเทพ												
Date Analysis Commenced	Sep 05, 2024												
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)												
Physical Property	Yellow, some odour, solid and no turbid												
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location						
Metals Testing													
Iron	mg/L	0.003	0.005	0.24	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Water Testing													
Fluoride as F ⁻	mg/L	0.05	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong						

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Nattawat Athompramarn, Karabundit Krasupavanit

Remarks:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked "L" 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

Approved by

Sawatree N.

Sawatree Nongniam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496795
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093229-1

Page 1 of 2

Sample Number	2496795-1														
Sampled Date	Sep 04, 2024 9:38 AM														
Sample Description	Wastewater														
Contract ID	L_ESTIE_012_2560 Plot R 03A,03B Site Gulf TSI Co.,Ltd														
Location	ซอย 2 ถนนพหลโยธิน/ถนนสุเทพ														
Date Analysis Commenced	Sep 04, 2024														
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA / USEPA)														
Physical Property	Yellow, some odour, solid and no turbid														
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location								
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	42	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong								
Color (at Original ppt)	ADPC	-	5	20	≤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)	ADPC	-	5	19	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong								
Cyanide as CN	mg/L	0.001	0.005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, D)	Rayong								
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed 2004	Rayong								
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong								
pH (on site) *				6.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Rayong								

Technical Management

Photchanas S.

Photchanas Suda
Scientist (A)
โทรศัพท์ 3-323-4-0021

Approved by

D. Chongchon

Det Chongchon
Senior Manager
โทรศัพท์ 3-323-4-0001

Result based on the parameters as indicated in the testing plan submitted to ALS. No part of this report shall be reproduced or used in any form without written consent from this laboratory.
ALS Laboratory Group (Thailand) Co., Ltd. is a member of the ALS network with this report as its representative output.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496795
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093229-1

Page 2 of 2

Sample Number	2496795-1												
Sampled Date	Sep 04, 2024 9:38 AM												
Sample Description	Wastewater												
Contract ID	L_ESTIE_012_2560				Plot	R 03A,03B		Site	Gulf TS1 Co.,Ltd				
Location	ซอย 2 ถนนพหลโยธิน/ถนนสุเทพ												
Date Analysis Commenced	Sep 04, 2024												
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sampler containers comply to pretreatment - preservation standards (APHA, USEPA)												
Physical Property	Yellow, some odour, solid and no turbid												
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location						
Water Testing													
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5330 D	Rayong						
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong						
Temperature *	Degree C	-	-	31.8	≤40	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong						
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1880	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong						
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong						

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 : Ammonia Nitrogen, Dissolved Oxygen, Chloride and SAR guideline set by Environmental Impact Assessment Report of Gulf TS1 Co., Ltd

Sampling By : Nattawat Athompramarn, Karabundit Krasupavanit, Karabundit Krasupavanit โทรศัพท์ 3-323-4-0006, Karabundit Krasupavanit โทรศัพท์ 3-323-4-0001

Remarks:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked "L" 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

Photchanas S.

Photchanas Suda
Scientist (A)
โทรศัพท์ 3-323-4-0021

Approved by

D. Chongchon

Det Chongchon
Senior Manager
โทรศัพท์ 3-323-4-0001

Result based on the parameters as indicated in the testing plan submitted to ALS. No part of this report shall be reproduced or used in any form without written consent from this laboratory.
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 2496795
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093229-2

Page 1 of 2

Sample Number	2496795-1												
Sampled Date	Sep 04, 2024 9:38 AM												
Sample Description	Wastewater												
Contract ID	L_ESTIE_012_2560 Plot R 03A,03B Site Gulf TS1 Co. Ltd												
Location	ซอย 2 ถนนพหลโยธิน/ถนนสุเทพ												
Date Analysis Commenced	Sep 05, 2024												
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)												
Physical Property	Yellow, some odour, solid and no turbid												
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location						
Metals Testing													
Arsenic	mg/L	0.0003	0.0005	0.006	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Barium	mg/L	0.0003	0.0005	0.56	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok						

Technical Management

Chanatt L.

Chanattagorn Limchom
Scientist (A)
โทรศัพท์ 3-323-4-0008

Approved by

Kanokorn A.

Kanokorn Aon
Assistant General Manager
โทรศัพท์ 3-323-4-0004

Result based on the parameters as indicated in the testing plan submitted to ALS. No part of this report shall be reproduced or used in any form without written consent from this laboratory.
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2496795
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093229-2

Page 2 of 2

Sample Number	2496795-1							Page 1 of 2
Sampled Date	Sep 04, 2024 9:38 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_012_2560 Plot R.03A.03B			Site	Gulf TSI Co. Ltd			
Location	พื้นที่ 2 บริเวณโรงงานอุตสาหกรรม							
Date Analysis Commenced	Sep 05, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	0.001	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.51	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	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 : Ammonia Nitrogen, Dissolved Oxygen, Chloride and SAR guideline set by Environmental Impact Assessment Report of Gulf TSI Co., Ltd.

Sampling By : นายนิต อำภรณ์ประมาตย์ นิสิตกุลวิทย์ 1-323-4-0006, นายนัดดา ธีระประเสริฐ นิสิตกุลวิทย์ 1-204-4-0001

Remark :
* LOD : Limit of Detection
* QC : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
Analysis method : same 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
Chanatt L.
Chanattagarn Limchom
Section Head
โทรศัพท์ 1-204-4-0008

Approved by
Kanokorn Anok
Kanokorn Anok
Assistant General Manager
โทรศัพท์ 1-204-4-0004



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 2496795
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093229-3

Page 2 of 2

Sample Number	2496795-1								Page 1 of 1
Sampled Date	Sep 04, 2024 9:38 AM								
Sample Description	Wastewater								
Contract ID	L_ESIE_012_2560 Plot R.03A.03B				Site Gulf TSI Co.,Ltd				
Location	พื้นที่ 2 บริเวณโรงงานอุตสาหกรรม								
Date Analysis Commenced	Sep 04, 2024								
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)								
Physical Property	Yellow, some odour, solid and no turbid								
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location		
Metals Testing									
Calcium	mg/L	0.03	0.05	140	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok		
Iron	mg/L	0.003	0.005	0.14	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok		
Magnesium	mg/L	0.03	0.05	24.9	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok		
SAR *			0.10	7.41	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok		
Sodium	mg/L	0.03	0.05	362	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok		
Water Testing									
Ammonia Nitrogen *	mg/L	0.05	0.1	<0.1	≤1.5	In-house method based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong		
Chloride as Cl *	mg/L	0.5	1	492	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong		

Remark :
* LOD : Limit of Detection
* QC : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
Analysis method : same not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by
Chanatt L.
Chanattagarn Limchom
Section Head

112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong, Thailand 21140



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-3

Page 2 of 2

Sample Number	2496805-1								Page 1 of 2
Sampled Date	Sep 04, 2024 9:38 AM								
Sample Description	Wastewater								
Contract ID	L_ESIE_012_2560		Plot R.03A.03B		Site		Gulf TSI Co., Ltd.		
Location	พื้นที่ 2 บริเวณโรงงานอุตสาหกรรม								
Date Analysis Commenced	Sep 04, 2024								
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)								
Physical Property	Yellow, some odour, solid and no turbid								
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location		
Water Testing									
Chloride *	mg/L	0.05	0.1	1.03	≤1	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1994, EPA Method 200.1	Bangkok		
Conductivity at 25 Degree C *	microhm/cm	-	0.5	2721	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong		
Dissolved Oxygen *	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong		
Fluoride as F *	mg/L	0.06	0.2	2.5	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong		

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

Note : Ammonia Nitrogen, Dissolved Oxygen, Chloride and SAR guideline set by Environmental Impact Assessment Report of Gulf TSI Co., Ltd.

Sampling By : นายนิต อำภรณ์ประมาตย์, นายนัดดา ธีระประเสริฐ

Remark :
* LOD : Limit of Detection
* QC : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
Analysis method : same not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by
Chanatt L.
Chanattagarn Limchom
Section Head

112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong, Thailand 21140



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-1

Page 2 of 2

Sample Number	2496805-1							
Sampled Date	Sep 04, 2024 9:38 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_012_2560		Plot R.04		Site			Gulf TSI Co. Ltd.
Location	พื้นที่ 2 บริเวณโรงงานอุตสาหกรรม							
Date Analysis Commenced	Sep 04, 2024							
Condition of Sample	Contained in four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
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-CG	Rayong	
COD	mg/L	1.5	25	31	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5202-D	Rayong	
Color (at Original pH)	ADMG	-	5	14	≤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	13	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 2120-F	Rayong	
Cyanide as CN	mg/L	0.003	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 4500-CN (C, D)	Rayong	
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	Wastewater Analysis - manual Environmental Engineering Association of Thailand, 4th ed 2004	Rayong	
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520-B	Rayong	
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 23rd ed., 2017, part 4500-H (B)	Rayong	

Technical Management
Photchanas S.
Photchanas Seeda
Scientist (4)
โทรศัพท์ 1-323-4-0038

Approved by
D. Chongchong
D. Chongchong
Senior Manager
โทรศัพท์ 1-323-4-0001

112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong, Thailand 21140



Analysis / Test Report



TESTING
No. 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093241-1

Page 2 of 2

Sample Number : 2496805-1
Sampled Date : Sep 04, 2024 9:58 AM
Sample Description : Wastewater
Contract ID : L_ESIE_017-2560 Plot R 04 Site : Gulf TSE Co., Ltd.
Location : 112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Date Analysis Commenced : Sep 04, 2024
Condition of Sample : Contained in four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	Not Detected	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 D (P)	Rayong
Temperature *	Degree C	-	32.0	32.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2530 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1860	≤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

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 : Ammonia Nitrogen, Dissolved Oxygen, Chloride and SAR guideline set by Environmental Impact Assessment Report of Gulf TSE Co., Ltd.
Sampling By : Natnawit Athornprommarat รหัสประจำตัวพนักงาน 323-4-0006, Karndundit Ketsupavanant รหัสประจำตัวพนักงาน 324-4-0001

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

Photchana S.

Photo: Nita Sreeki
Scientist (4)
รหัสประจำตัวพนักงาน 323-4-0028

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัวพนักงาน 323-4-0001

112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong Thailand 21140
ALSC-112/104 Phatthanakan 40 Phatthanakan Rd. Khwaeng Phatthanakan Khet Samut Prakan 10250 Thailand P.O. Box 112/104 112/104 Phatthanakan Rd. Khwaeng Phatthanakan Khet Samut Prakan 10250 Thailand P.O. Box 112/104 112/104 Phatthanakan Rd. Khwaeng Phatthanakan Khet Samut Prakan 10250 Thailand P.O. Box 112/104
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Analysis / Test Report



TESTING
No. 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-2

Page 2 of 2

Sample Number : 2496805-1
Sampled Date : Sep 04, 2024 9:58 AM
Sample Description : Wastewater
Contract ID : L_ESIE_017-2560 Plot R 04 Site : Gulf TSE Co., Ltd.
Location : 112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Date Analysis Commenced : Sep 05, 2024
Condition of Sample : Contained in four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0006	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	<0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.52	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	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 : Ammonia Nitrogen, Dissolved Oxygen, Chloride and SAR guideline set by Environmental Impact Assessment Report of Gulf TSE Co., Ltd.
Sampling By : Natnawit Athornprommarat รหัสประจำตัวพนักงาน 323-4-0006, Karndundit Ketsupavanant รหัสประจำตัวพนักงาน 324-4-0001

Technical Management

Savitree N.

Savitree Nosingam
Manager
รหัสประจำตัวพนักงาน 324-4-0007

Approved by

Kanokkom Anek

Assistant General Manager
รหัสประจำตัวพนักงาน 324-4-0004

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Analysis / Test Report



TESTING
No. 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-2

Page 1 of 1

Sample Number : 2496805-1
Sampled Date : Sep 04, 2024 9:58 AM
Sample Description : Wastewater
Contract ID : L_ESIE_017-2560 Plot R 04 Site : Gulf TSE Co., Ltd.
Location : 112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Date Analysis Commenced : Sep 05, 2024
Condition of Sample : Contained in four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.006	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.38	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.003	0.005	0.15	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nosingam
Manager
รหัสประจำตัวพนักงาน 324-4-0007

Approved by

Kanokkom Anek

Assistant General Manager
รหัสประจำตัวพนักงาน 324-4-0004

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Analysis / Test Report



TESTING
No. 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-2

Page 1 of 1

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

Savitree N.

Savitree Nosingam
Manager
รหัสประจำตัวพนักงาน 324-4-0007

Approved by

Kanokkom Anek

Assistant General Manager
รหัสประจำตัวพนักงาน 324-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0009
Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-3

Sample Number 2496805-1
Sampled Date Sep 04, 2024 9:58 AM
Sample Description Wastewater
Contract ID L_ESIE_017_2560 Plot R 04 Site Gulf TS2 Co., Ltd
Location well 2 อู่เก็บน้ำและบำบัดน้ำเสีย
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in four plastic bottles Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Cadmium	mg/L	0.03	0.05	104	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	18.5	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *			0.10	9.48	0.10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	399	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	0.05	0.1	<0.1	≤1.5	In-house method based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH ₃ (D)	Rayong
Chloride as Cl *	mg/L	0.5	1	626	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Chloride *	mg/L	0.05	0.1	0.73	≤1	In-house method : STM 04-063 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Conductivity at 25 Degree C *	micromhos/cm		0.5	2629	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510-B	Rayong

Approved by

Savitree N.
Savitree Nongniam
Manager

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0009
Lot ID: 2496805
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093241-3

Sample Number 2496805-1
Sampled Date Sep 04, 2024 9:58 AM
Sample Description Wastewater
Contract ID L_ESIE_017_2560 Plot R 04 Site Gulf TS2 Co., Ltd
Location well 2 อู่เก็บน้ำและบำบัดน้ำเสีย
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in four plastic bottles Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	7.4	≥1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
Fluoride as F *	mg/L	0.05	0.2	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (P)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Note : Ammonia Nitrogen, Dissolved Oxygen, Chloride and SAR guideline set by Environmental Impact Assessment Report of Gulf TS2 Co., Ltd.

Sampling By : Mettawut Ahamprammarat, Kairatond Kiksupavanat

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOI (Limit of Reporting)
Analyte(s) marked * : Not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by

Savitree N.
Savitree Nongniam
Manager

ALS (Thailand) Public Co., Ltd. 104 Phatthanakan Rd. Phatthanakan Khet Sam Luang, Bangkok 10250 Thailand TEL: +66 0 2760 3000 FAX: +66 0 2760 3197



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0042
Lot ID: 2496806
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093252-1

Sample Number 2496806-1
Sampled Date Sep 04, 2024 1:36 PM
Sample Description Wastewater
Contract ID L_ESIE_010_2560 Plot E 23,24,25 Site Gulf VTP Co., Ltd
Location well 2 อู่เก็บน้ำและบำบัดน้ำเสีย
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
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 4520 - (D)	Rayong
COD	mg/L	1.5	25	44	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220-D	Rayong
Color (at Original pH)	ADMU	-	5	18	≤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)	ADMU	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120-F	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.01	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	4	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520-B	Rayong
pH (on site) *				8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - (B)	Rayong

Technical Management

Photchan S.
Photchan S.
Supervisor (4)
มือถือ +66 9 3324 40226

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

No.0042
Lot ID: 2496806
Date Received : Sep 04, 2024
Date Reported : Sep 11, 2024
Report Number : 3093252-1

Sample Number 2496806-1
Sampled Date Sep 04, 2024 1:36 PM
Sample Description Wastewater
Contract ID L_ESIE_010_2560 Plot E 23,24,25 Site Gulf VTP Co., Ltd
Location well 2 อู่เก็บน้ำและบำบัดน้ำเสีย
Date Analysis Commenced Sep 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530-D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (P)	Rayong
Temperature *	Degree C	-	-	33.1	≤40	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550-B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1510	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540-C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540-D	Rayong

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 : Ammonia Nitrogen, Dissolved Oxygen, and SAR guideline set by Environmental Impact Assessment Report of Gulf VTP Co., Ltd.

Sampling By : Nattawut Ahamprammarat มือถือ +66 9-3324-0006, Kairatond Kiksupavanat มือถือ +66 9-3324-0001

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOI (Limit of Reporting)
Analyte(s) marked * : 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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Photchan S.
Supervisor (4)
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Approved by

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2496806
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093252-2

Sample Number	2496806-1						Page 1 of 2
Sampled Date	Sep 04, 2024 1:36 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2560 Plot E 23,24,25 Site Gulf VTP Co., Ltd						
Location	ซอย 2 ถนนสายพัฒนาอุตสาหกรรม/ท่าเรือ						
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.006	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	1.03	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Sauwatee N.
Sawtee Nongsam
Manager

Approved by

Kanokorn Anek
Assistant General Manager
ม.ค.๒๕๖๕ ๖-๒๐๔-๐๐๐๑

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www.alsglobal.com
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2496806
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093252-2

Sample Number	2496806-1						Page 2 of 2
Sampled Date	Sep 04, 2024 1:36 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2560 Plot E 23,24,25 Site Gulf VTP Co., Ltd						
Location	ซอย 2 ถนนสายพัฒนาอุตสาหกรรม/ท่าเรือ						
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0008	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	—	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.37	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resources 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 : Ammonia Nitrogen, Dissolved Oxygen, and SAR guideline set by Environmental Impact Assessment Report of Gulf VTP Co., Ltd

Sampling By : Nattawat Athongprammarat ม.ค.๒๕๖๕ ๖-๓๒๖-๐๐๐๖, Kirdbandit Khasapavane ม.ค.๒๕๖๕ ๖-๒๐๔-๐๐๐๑

Remarks:
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method * : 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

Sauwatee N.
Sawtee Nongsam
Manager

Approved by

Kanokorn Anek
Assistant General Manager
ม.ค.๒๕๖๕ ๖-๒๐๔-๐๐๐๑

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2496806
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093252-3

Sample Number	2496806-1						Page 1 of 2
Sampled Date	Sep 04, 2024 1:36 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2560 Plot E 23,24,25 Site Gulf VTP Co., Ltd						
Location	ซอย 2 ถนนสายพัฒนาอุตสาหกรรม/ท่าเรือ						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Cadmium	mg/L	0.03	0.05	128	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994. EPA Method 200.7	Bangkok
Iron	mg/L	0.003	0.005	0.07	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Magnesium	mg/L	0.03	0.05	25.2	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994. EPA Method 200.7	Bangkok
SAR *			0.10	5.04	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994. EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	238	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994. EPA Method 200.7	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	0.05	0.1	<0.1	≤15	In-house method based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 N-3 (D)	Rayong
Chloride as Cl ⁻	mg/L	0.5	—	475	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 Cl ⁻ (D)	Rayong

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Sauwatee N.
Sawtee Nongsam
Manager



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 2496806
Date Received : Sep 04, 2024
Date Reported : Sep 12, 2024
Report Number : 3093252-3

Sample Number	2496806-1						Page 2 of 2
Sampled Date	Sep 04, 2024 1:36 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2560 Plot E 23,24,25 Site Gulf VTP Co., Ltd						
Location	ซอย 2 ถนนสายพัฒนาอุตสาหกรรม/ท่าเรือ						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride *	mg/L	0.05	0.1	0.81	≤1	In-house method : STM 04-051 based on United States Environmental Protection Agency, 1994. EPA Method 300.1	Bangkok
Conductivity at 25 Degree C *	microhm/cm	—	0.5	2150	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	—	0.1	7.9	≥4	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 O (G)	Rayong
Fluoride as F *	mg/L	0.06	0.2	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 F (D)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resources 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 : Ammonia Nitrogen, Dissolved Oxygen, and SAR guideline set by Environmental Impact Assessment Report of Gulf VTP Co., Ltd

Sampling By : Nattawat Athongprammarat ม.ค.๒๕๖๕ ๖-๓๒๖-๐๐๐๖, Kirdbandit Khasapavane ม.ค.๒๕๖๕ ๖-๒๐๔-๐๐๐๑

Remarks:
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method * : 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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Approved by

Sauwatee N.
Sawtee Nongsam
Manager

ผลการตรวจวิเคราะห์ประจำเดือนตุลาคม



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110492
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3121974-1

Sample Number : 24110492-1
Sampled Date : Oct 07, 2024 9:36 AM
Sample Description : Wastewater
Contract ID : L_ESIE_147_2550 Plot : S-41 Site : Sombon Somic Manufacturing Co., Ltd.
Date Analysis Commenced : Oct 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		7.0	84.7	≤500	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	218	≤750	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	112	≤600	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	108	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, F)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5510 B	Rayong
Oil & Grease	mg/L		3	10	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5510 B	Rayong
pH (on site) *				7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

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Photchanas Seeda
Scientist (4)
วิเศษชาญ 3-323-0028

Approved by

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2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775-2776-2777-2778-2779-2780-2781-2782-2783-2784-2785-2786-2787-2788-2789-2790-2791-2792-2793-2794-2795-2796-2797-2798-2799-2800-2801-2802-2803-2804-2805-2806-2807-2808-2809-2810-2811-2812-2813-2814-2815-2816-2817-2818-2819-2820-2821-2822-2823-2824-2825-2826-2827-2828-2829-2830-2831-2832-2833-2834-2835-2836-2837-2838-2839-2840-2841-2842-2843-2844-2845-2846-2847-2848-2849-2850-2851-2852-2853-2854-2855-2856-2857-2858-2859-2860-2861-2862-2863-2864-2865-2866-2867-2868-2869-2870-2871-2872-2873-2874-2875-2876-2877-2878-2879-2880-2881-2882-2883-2884-2885-2886-2887-2888-2889-2890-2891-2892-2893-2894-2895-2896-2897-2898-2899-2900-2901-2902-2903-2904-2905-2906-2907-2908-2909-2910-2911-2912-2913-2914-2915-2916-2917-2918-2919-2920-2921-2922-2923-2924-2925-2926-2927-2928-2929-2930-2931-2932-2933-2934-2935-2936-2937-2938-2939-2940-2941-2942-2943-2944-2945-2946-2947-2948-2949-2950-2951-2952-2953-2954-2955-2956-2957-2958-2959-2960-2961-2962-2963-2964-2965-2966-2967-2968-2969-2970-2971-2972-2973-2974-2975-2976-2977-2978-2979-2980-2981-2982-2983-2984-2985-2986-2987-2988-2989-2990-2991-2992-2993-2994-2995-2996-2997-2998-2999-3000-3001-3002-3003-3004-3005-3006-3007-3008-3009-3010-3011-3012-3013-3014-3015-3016-3017-3018-3019-3020-3021-3022-3023-3024-3025-3026-3027-3028-3029-3030-3031-3032-3033-3034-3035-3036-3037-3038-3039-3040-3041-3042-3043-3044-3045-3046-3047-3048-3049-3050-3051-3052-3053-3054-3055-3056-3057-3058-3059-3060-3061-3062-3063-3064-3065-3066-3067-3068-3069-3070-3071-3072-3073-3074-3075-3076-3077-3078-3079-3080-3081-3082-3083-3084-3085-3086-3087-3088-3089-3090-3091-3092-3093-3094-3095-3096-3097-3098-3099-3100-3101-3102-3103-3104-3105-3106-3107-3108-3109-3110-3111-3112-3113-3114-3115-3116-3117-3118-3119-3120-3121-3122-3123-3124-3125-3126-3127-3128-3129-3130-3131-3132-3133-3134-3135-3136-3137-3138-3139-3140-3141-3142-3143-3144-3145-3146-3147-3148-3149-3150-3151-3152-3153-3154-3155-3156-3157-3158-3159-3160-3161-3162-3163-3164-3165-3166-3167-3168-3169-3170-3171-3172-3173-3174-3175-3176-3177-3178-3179-3180-3181-3182-3183-3184-3185-3186-3187-3188-3189-3190-3191-3192-3193-3194-3195-3196-3197-3198-3199-3200-3201-3202-3203-3204-3205-3206-3207-3208-3209-3210-3211-3212-3213-3214-3215-3216-3217-3218-3219-3220-3221-3222-3223-3224-3225-3226-3227-3228-3229-3230-3231-3232-3233-3234-3235-3236-3237-3238-3239-3240-3241-3242-3243-3244-3245-3246-3247-3248-3249-3250-3251-3252-3253-3254-3255-3256-3257-3258-3259-3260-3261-3262-3263-3264-3265-3266-3267-3268-3269-3270-3271-3272-3273-3274-3275-3276-3277-3278-3279-3280-3281-3282-3283-3284-3285-3286-3287-3288-3289-3290-3291-3292-3293-3294-3295-3296-3297-3298-3299-3300-3301-3302-3303-3304-3305-3306-3307-3308-3309-3310-3311-3312-3313-3314-3315-3316-3317-3318-3319-3320-3321-3322-3323-3324-3325-3326-3327-3328-3329-3330-3331-3332-3333-3334-3335-3336-3337-3338-3339-3340-3341-3342-3343-3344-3345-3346-3347-3348-3349-3350-3351-3352-3353-3354-3355-3356-3357-3358-3359-3360-3361-3362-3363-3364-3365-3366-3367-3368-3369-3370-3371-3372-3373-3374-3375-3376-3377-3378-3379-3380-3381-3382-3383-3384-3385-3386-3387-3388-3389-3390-3391-3392-3393-3394-3395-3396-3397-3398-3399-3400-3401-3402-3403-3404-3405-3406-3407-3408-3409-3410-3411-3412-3413-3414-3415-3416-3417-3418-3419-3420-3421-3422-3423-3424-3425-3426-3427-3428-3429-3430-3431-3432-3433-3434-3435-3436-3437-3438-3439-3440-3441-3442-3443-3444-3445-3446-3447-3448-3449-3450-3451-3452-3453-3454-3455-3456-3457-3458-3459-3460-3461-3462-3463-3464-3465-3466-3467-3468-3469-3470-3471-3472-3473-3474-3475-3476-3477-3478-3479-3480-3481-3482-3483-3484-3485-3486-3487-3488-3489-3490-3491-3492-3493-3494-3495-3496-3497-3498-3499-3500-3501-3502-3503-3504-3505-3506-3507-3508-3509-3510-3511-3512-3513-3514-3515-3516-3517-3518-3519-3520-3521-3522-3523-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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Puaikdaeng, Amphur Puaikdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110492
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3121974-3

Sample Number 24110492-1
Sampled Date Oct 07, 2024 9:36 AM
Sample Description Wastewater
Contract ID L_ESIE_147_2550 Plot 5-41 Site Sombon Somic Manufacturing Co., Ltd
Date Analysis Commenced Oct 08, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.51	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chmphaee, Saman Khumpluee

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

Results apply to the samples 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 Issuer or ALS Laboratory Group (Thailand) private, watermark that this report is not reproduced in full.

Approved by

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Puaikdaeng, Amphur Puaikdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110495
Date Received : Oct 07, 2024
Date Reported : Oct 08, 2024
Report Number : 3121976-1

Sample Number 24110495-1
Sampled Date Oct 02, 2024 1:45 PM
Sample Description Wastewater
Contract ID L_ESIE_003_2550 Plot 1-04/05.06 Site Ampacet (Thailand) Co., Ltd
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Iron	mg/L	0.003	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3530 D	Rayong
Temperature *	Degree C	-	-	31.5	≤45	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	228	≤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	32	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chmphaee, Warunyo Chmphaee 3123-0-0020 Phattana Swangkhajon 3123-0-0002

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

Photchan S.
Photchan Seeda
Scientist (H)
Tel : 09-00000000 3123-0-0025

Approved by

D. Chongchon
Dey Chongchon
Senior Manager
Tel : 09-00000000 3123-0-0001

Results apply to the samples 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 Issuer or ALS Laboratory Group (Thailand) private, watermark that this report is not reproduced in full.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Puaikdaeng, Amphur Puaikdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110495
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Report Number : 3121976-1

Sample Number 24110495-1
Sampled Date Oct 02, 2024 1:45 PM
Sample Description Wastewater
Contract ID L_ESIE_003_2550 Plot 1-04/05.06 Site Ampacet (Thailand) Co., Ltd
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	23.9	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500-5210 B	Rayong
COD	mg/L	1.5	25	78	≤750	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	37	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	36	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchan S.
Photchan Seeda
Scientist (H)
Tel : 09-00000000 3123-0-0025

Approved by

D. Chongchon
Dey Chongchon
Senior Manager
Tel : 09-00000000 3123-0-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Puaikdaeng, Amphur Puaikdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110495
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121976-1

Sample Number 24110495-1
Sampled Date Oct 02, 2024 1:45 PM
Sample Description Wastewater
Contract ID L_ESIE_003_2550 Plot 1-04/05.06 Site Ampacet (Thailand) Co., Ltd
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.17	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3630 F	Bangkok

Technical Management

Chanatt L.
Chanattasorn Inchan
Section Head
Tel : 09-00000000 3123-0-0001

Approved by

Karadorn Anek
Karadorn Anek
Assistant General Manager
Tel : 09-00000000 3123-0-0004

Results apply to the samples 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 Issuer or ALS Laboratory Group (Thailand) private, watermark that this report is not reproduced in full.

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110495
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number 3121976-2

Sample Number	24110495-1						Page 1 of 1
Sampled Date	Oct 02, 2024 1:45 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_003_2550	Plot	1-04-05.06	Site	Ampacet (Thailand) Co., Ltd		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	0.02	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline: Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Wanunyo Chomphalee รหัสประจำตัว 3-323-0020, Pattarapol Sawangjatan รหัสประจำตัว 3-204-0002

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * have 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

Chanatt L.

Chanatagorn Inthorn
Section Head
รหัสประจำตัว 3-204-0008

Approved by

Kanokorn Anit

Assistant General Manager
รหัสประจำตัว 3-204-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110496
Date Received Oct 02, 2024
Date Reported Oct 08, 2024
Report Number 3121978-1

Sample Number	24110496-1						
Sampled Date	Oct 02, 2024 11:25 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_106_2550	Plot	1-08	Site	Nordic Plastic (Thailand) Co., Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	45.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 5210 D	Rayong
COD	mg/L	1.5	25	131	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADCU	-	5	83	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 F	Rayong
Color (at pH 7.0)	ADCU	-	5	80	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CH (C)	Rayong
Formaldehyde	mg/L	0.02	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 1st ed., 2004	Rayong
Oil & Grease	mg/L	-	5	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchan S.

Photchan Seeds
Senior Manager
รหัสประจำตัว 3-323-0020

Approved by

Dei Oungchon

Senior Manager
รหัสประจำตัว 3-323-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110495
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number 3121976-3

Sample Number	24110495-1						Page 1 of 1
Sampled Date	Oct 02, 2024 1:45 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_003_2550	Plot	1-04-05.06	Site	Ampacet (Thailand) Co., Ltd		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.30	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand NO 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : Vibranuoy Chomphuea , Pattanasol Sawangpakorn							
Remark :							
LOD : Limit of Detection							
*c : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)							
Analytical method *c is not included in scope of Accreditation ISO/IEC 17025							
The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025							

Guideline: Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Wanunyo Chomphalee รหัสประจำตัว 3-323-0020, Pattarapol Sawangjatan รหัสประจำตัว 3-204-0002

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * have not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Approved by

Chanatt L.

Chanatagorn Inthorn
Section Head
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110496
Date Received Oct 02, 2024
Date Reported Oct 08, 2024
Report Number 3121978-1

Sample Number	24110496-1					
Sampled Date	Oct 02, 2024 11 25 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_106_2550	Plot	1-08	Site	Nordic Plastic (Thailand) Co., Ltd	
Date Analysis Commenced	Oct 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
Phenol	mg/L	0.005	0.01	0.07	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D
Temperature *	Degree C	-	-	31.6	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Guideline: Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By: Wanunyo Chomphalee รหัสประจำตัว 3-323-0020, Pattarapol Sawangjatan รหัสประจำตัว 3-204-0002

Remark :
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Technical Management

Photchan S.

Photchan Seeds
Senior Manager
รหัสประจำตัว 3-323-0020

Approved by

Dei Oungchon

Senior Manager
รหัสประจำตัว 3-323-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110496
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121978-2

Page 1 of 2

Sample Number : 24110496-1
Sampled Date : Oct 02, 2024 11:25 AM
Sample Description : Wastewater
Contract ID : L_ESIE_106_2550 Plot : I-08 Site : Nordic Plastic (Thailand) Co., Ltd
Date Analysis Commenced : Oct 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattam Limchom
Section Head
โทรศัพท์ 0-204-4-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110496
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121978-2

Page 1 of 2

Sample Number : 24110496-1
Sampled Date : Oct 02, 2024 1:25 AM
Sample Description : Wastewater
Contract ID : L_ESIE_106_2550 Plot : I-08 Site : Nordic Plastic (Thailand) Co., Ltd
Date Analysis Commenced : Oct 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solids and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanunoy Chiraphalee โทรศัพท์ 0-204-4-0070, Pattarapol Sawangjittam โทรศัพท์ 0-204-4-0002

Remarks :
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

Chanatt L.
Chanattam Limchom
Section Head
โทรศัพท์ 0-204-4-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110496
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121978-3

Page 1 of 2

Sample Number : 24110496-1
Sampled Date : Oct 02, 2024 11:25 AM
Sample Description : Wastewater
Contract ID : L_ESIE_106_2550 Plot : I-08 Site : Nordic Plastic (Thailand) Co., Ltd
Date Analysis Commenced : Oct 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanunoy Chiraphalee , Pattarapol Sawangjittam

Remarks :
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

Approved by

Chanatt L.
Chanattam Limchom
Section Head

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110497
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121999-1

Page 1 of 2

Sample Number : 24110497-1
Sampled Date : Oct 02, 2024 11:15 AM
Sample Description : Wastewater
Contract ID : L_ESIE_069_2550 Plot : I-09 Site : J-C Sala Thai Limited
Date Analysis Commenced : Oct 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	23.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500-5 G	Rayong
COD	mg/L	1.5	25	67	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	APHA	-	5	205	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	APHA	-	5	200	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environment & Engineering Association of Thailand, 4th ed., 2008	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchan S.
Photchan Seeda
Scientist (4)
โทรศัพท์ 0-204-4-0008

Approved by

Dej Chanchong
Dej Chanchong
Senior Manager
โทรศัพท์ 0-204-4-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0042
Lot ID: 24110497
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121979-1

Page 1 of 2

Sample Number	24110497-1						
Sampled Date	Oct 02, 2024 11:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_069_2550 Plot 1-09 Site J-C Sala Thai Limited						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.6	≤45	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	476	≤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	7	≤700	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanayoo Chomphakhe มินิอุวาสถ 3-223-0020, Pattarapol Sawangjittam มินิอุวาสถ 3-204-0002

Remark :
LOD : Limit of Detection
C : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : *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

Photchanas.
Photchanas Seeda
Scientist (4)
มินิอุวาสถ 3-223-0020

Approved by

D. Chongchon
Dei Chongchon
Senior Manager
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0009
Lot ID: 24110497
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121979-2

Page 1 of 2

Sample Number	24110497-1						
Sampled Date	Oct 02, 2024 11 15 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_069_2550 Plot 1-09 Site J-C Sala Thai Limited						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one Amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-02 B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattaborn Inthorn
Section Head
มินิอุวาสถ 3-204-0008

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
มินิอุวาสถ 3-204-0004

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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0009
Lot ID: 24110497
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121979-2

Page 2 of 2

Sample Number	24110497-1						
Sampled Date	Oct 02, 2024 11:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_069_2550		Plot 1-09	Site		J-C Sala Thai Limited	
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanayoo Chomphakhe มินิอุวาสถ 3-223-0020, Pattarapol Sawangjittam มินิอุวาสถ 3-204-0002

Remark :
LOD : Limit of Detection
C : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : *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

Chanatt L.
Chanattaborn Inthorn
Section Head
มินิอุวาสถ 3-204-0008

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
มินิอุวาสถ 3-204-0004

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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No.0009
Lot ID: 24110497
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121979-2

Page 1 of 1

Sample Number	24110497-1						
Sampled Date	Oct 02, 2024 11:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_069_2550 Plot 1 09 Site J-C Sala Thai Limited						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.34	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanayoo Chomphakhe มินิอุวาสถ 3-223-0020, Pattarapol Sawangjittam มินิอุวาสถ 3-204-0002

Remark :
LOD : Limit of Detection
C : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : *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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Chanattaborn Inthorn
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Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110498
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 312190-1

Page 1 of 2

Sample Number	24110498-1										
Sampled Date	Oct 02, 2024 11:00 AM										
Sample Description	Wastewater										
Contract ID	L-ESIE_027_2557			Plot	1-10		Site: NIPPON FUSCO (THAILAND) COMPANY LIMITED.				
Date Analysis Commenced	Oct 02, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	58.7	≤500	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	15	25	221	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 D	Rayong				
Color (at Original pH)	ADNI	-	5	112	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong				
Color (at pH 7.0)	ADNI	-	5	108	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, S)	Rayong				
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong				
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5320 B	Rayong				
pH (on site)	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (3)	Rayong				

Technical Management

Photchanas S.

Photchanas Suda
Scientist (4)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110498
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 312190-1

Page 2 of 2

Sample Number	24110498-1										
Sampled Date	Oct 02, 2024 11 00 AM										
Sample Description	Wastewater										
Contract ID	L-ESIE 027_2557 Plot 1-10 Site NIPPON FUSCO (THAILAND) COMPANY LIMITED										
Date Analysis Commenced	Oct 02, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
Phenol	mg/L	0.005	0.01	0.09	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong				
Temperature	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 D	Rayong				
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	352	≤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	32	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong				
Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates											
Sampling By : Wanuyoo Champhale มรณิณณพ ๓-๓๒๓-๐๐๒๐, Panaraporn Sawangjantam มรณิณณพ ๓-๓๒๓-๐๐๐๒											
Remark:											
LOD	Limit of Detection										
LOQ	Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)										
Analytical method : 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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Photchanas Suda
Scientist (4)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0008
Lot ID: 24110498
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 312190-2

Page 1 of 2

Sample Number	24110498-1										
Sampled Date	Oct 02, 2024 11:00 AM										
Sample Description	Wastewater										
Contract ID	L-ESIE_027_2557		Plot	T-10		Site					NIPPON FUSCO (THAILAND) COMPANY LIMITED
Date Analysis Commenced	Oct 03, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Barium	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				

Technical Management

Chamatt L.

Chamattam Limchom
Section Head
มรณิณณพ ๓-๓๒๓-๐๐๒๕

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
มรณิณณพ ๓-๓๒๓-๐๐๐๑

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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0008
Lot ID: 24110498
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 312190-2

Page 2 of 2

Sample Number	24110498-1										
Sampled Date	Oct 02, 2024 11:00 AM										
Sample Description	Wastewater										
Contract ID	L_ESIE_027_2557 Plot 1-10 Site NIPPON FUSCO (THAILAND) COMPANY LIMITED										
Date Analysis Commenced	Oct 03, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, a lot of odour, solid and some turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok				
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.003	0.005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanuyoo Champhale มรณิณณพ ๓-๓๒๓-๐๐๒๐, Panaraporn Sawangjantam มรณิณณพ ๓-๓๒๓-๐๐๐๒

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

Chamatt L.

Chamattam Limchom
Section Head
มรณิณณพ ๓-๓๒๓-๐๐๒๕

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
มรณิณณพ ๓-๓๒๓-๐๐๐๑

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24110498
Date Received : Oct 02, 2024
Date Reported : Oct 06, 2024
Report Number : 3121980-1

Sample Number : 24110498-1
Sampled Date : Oct 02, 2024 11:00 AM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2557 Plot : I 10 Site : NIPPON FUSO (THAILAND) COMPANY LIMITED
Date Analysis Commenced : Oct 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.25	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chimphalee Postasapoi Sawangjatan

Remarks :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked * are not included in scope of Accreditation ISO/IEC 17025
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Approved by

Chanatt L.
Chanattagorn Inthorn
Section Head

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 24110499
Date Received : Oct 02, 2024
Date Reported : Oct 06, 2024
Report Number : 3121983-1

Sample Number : 24110499-1
Sampled Date : Oct 02, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2561 Plot : Q 13 Site : BORGWARNER (THAILAND) LIMITED
Date Analysis Commenced : Oct 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.11	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.4	≤45	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	-	-	384	≤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	-	-	48	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chimphalee Postasapoi Sawangjatan

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

Photchanas S.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3123-4-0020

Approved by

D. Chanong
Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3123-4-0001

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 24110499
Date Received : Oct 02, 2024
Date Reported : Oct 06, 2024
Report Number : 3121983-1

Sample Number : 24110499-1
Sampled Date : Oct 02, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2561 Plot : Q 13 Site : BORGWARNER (THAILAND) LIMITED
Date Analysis Commenced : Oct 02, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	94.1	≤500	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	242	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ACNU	-	8	124	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 F	Rayong
Color (at pH 7.0)	ACNU	-	8	120	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater Analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3123-4-0020

Approved by

D. Chanong
Dej Changchon
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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24110499
Date Received : Oct 02, 2024
Date Reported : Oct 06, 2024
Report Number : 3121983-2

Sample Number : 24110499-1
Sampled Date : Oct 02, 2024 2:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2561 Plot : Q 13 Site : BORGWARNER (THAILAND) LIMITED
Date Analysis Commenced : Oct 03, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Calcium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.04	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500 Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagorn Inthorn
Section Head
หมายเลขโทรศัพท์ 3123-4-0001

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
หมายเลขโทรศัพท์ 3123-4-0004

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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0009
Lot ID: 24110499
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121983-2

Page 2 of 2

Sample Number	24110499-1						
Sampled Date	Oct 02, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2561	Plot	Q 13	Site	BORGWARNER (THAILAND) LIMITED		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.20	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanuyoo Chimpalee รหัสผู้ตรวจ 1-323-4-0020, Pattarapol Sawangjatan รหัสผู้ตรวจ 1-204-4-0002

Remark :
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Technical Management

Channatt L.
Chanattam Uthom
Section Head
รหัสผู้ตรวจ 1-204-4-0003

Approved by

Kanokorn Anek
Assistant General Manager
รหัสผู้ตรวจ 1-204-4-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0042
Lot ID: 24110500
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121984-1

Page 2 of 2

Sample Number	24110500-1						
Sampled Date	Oct 02, 2024 10:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_182_2550	Plot	S-308.30C	Site	ZF AUTOMOTIVE SAFETY SYSTEMS (THAILAND) Co.,Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	84.6	≤500	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	304	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 D	Rayong
Color (at Original pH)	ADMI	-	8	49	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2170 F	Rayong
Color (at pH 7.0)	ADMI	-	8	47	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2170 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
รหัสผู้ตรวจ 1-323-4-0008

Approved by

Dej Changchon
Senior Manager
รหัสผู้ตรวจ 1-323-4-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0009
Lot ID: 24110499
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121983-1

Page 1 of 1

Sample Number	24110499-1						
Sampled Date	Oct 02, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2561	Plot	Q 13	Site	BORGWARNER (THAILAND) LIMITED		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanuyoo Chimpalee รหัสผู้ตรวจ 1-323-4-0020, Pattarapol Sawangjatan รหัสผู้ตรวจ 1-204-4-0002

Remark :
LOD : Limit of Detection
* < : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Results apply to the sampling as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0042
Lot ID: 24110500
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121984-1

Page 2 of 2

Sample Number	24110500-1						
Sampled Date	Oct 02, 2024 10:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_182_2550	Plot	S 308.30C	Site	ZF AUTOMOTIVE SAFETY SYSTEMS (THAILAND) Co., Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Amphig	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	260	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	91	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanuyoo Chimpalee รหัสผู้ตรวจ 1-323-4-0020, Pattarapol Sawangjatan รหัสผู้ตรวจ 1-204-4-0002

Remark :
LOD : Limit of Detection
* < : Lower than LOQ (Limit of Quantification) / 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

Photchanas S.
Photchanas Seeda
Scientist (4)
รหัสผู้ตรวจ 1-323-4-0008

Approved by

Dej Changchon
Senior Manager
รหัสผู้ตรวจ 1-323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24110500
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121994-2

Page 1 of 2

Sample Number	24110500-1						
Sampled Date	Oct 02, 2024 10:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_182_2550 Plot 5 308.30C Site 2F AUTOMOTIVE SAFETY SYSTEMS (THAILAND) Co. Ltd						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.15	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagim Inthom
Section Head
มือถือ: 09-204-1-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
มือถือ: 09-204-1-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24110500
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121994-2

Page 1 of 2

Sample Number	24110500-1						
Sampled Date	Oct 02 2024 10:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_182_2550 Plot 5 308.30C Site 2F AUTOMOTIVE SAFETY SYSTEMS (THAILAND) Co. Ltd						
Date Analysis Commenced	Oct 03 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	<0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.19	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By : Wanayoo Chumphalee รหัสประจำตัว 3123-1-0020, Pattarapol Sawangnam รหัสประจำตัว 1-204-1-0002							
Remark : LOD : Limit of Detection * : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting) Analyte(s) marked * were 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

Chanatt L.
Chanattagim Inthom
Section Head
มือถือ: 09-204-1-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
มือถือ: 09-204-1-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24110500
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121994-3

Page 1 of 2

Page 1 of 1

Sample Number	24110500-1						
Sampled Date	Oct 02, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_182_2550		Plot	5 308.30C	Site	ZF AUTOMOTIVE SAFETY SYSTEMS (THAILAND) Co. Ltd	
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.51	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wanayoo Chumphalee , Pattarapol Sawangnam

Remarks :

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

Approved by

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Section Head

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 24110501
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121985-1

Page 1 of 2

Sample Number	24110501-1							Page 1 of 2
Sampled Date	Oct 02, 2024 10:30 AM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_052_2550 Plot 5-31C Site 1 (E&R AUTOMOTIVE(Thailand) Co., Ltd							
Date Analysis Commenced	Oct 02, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid							
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	69.9	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5110 B, part 4500 O.G	Rayong	
COD	mg/L	1.5	25	265	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5120 D	Rayong	
Color (at Original pH)	ADMI	-	5	191	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong	
Color (at pH 7.0)	ADME	-	5	189	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C)	Rayong	
Formaldehyde	mg/L	0.03	1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong	
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5120 B	Rayong	
pH (on site) *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 H (B)	Rayong	

Technical Management

Photchanas S.
Photchanas S.
Senior Manager
มือถือ: 09-323-1-0026

Approved by

Dej Chongthong
Dej Chongthong
Senior Manager
มือถือ: 09-323-1-0001

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambon Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110501
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121955 1

Page 1 of 2

Sample Number	24110501-1						
Sampled Date	Oct 02, 2024 10 30 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_052_2550	Plot	S-31C	Site	LEAR AUTOMOTIVE(Thailand) Co.,Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.11	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature	Degree C			31.6	≤45	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	428	≤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	107	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chimphakkeewin (ใบอนุญาตที่ 323 ก 0020 , Pattarapol Sawangjatan (ใบอนุญาตที่ 204 ก 0002

Remark :
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"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analyte(s) marked "A" are not included in scope of Accreditation ISO/IEC 17025
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Technical Management

Photchanas S.

Photchanas Seeda
Senior Head
โทรศัพท์ 0-204-0000

Approved By

D. Chanchon

Dig Chanchon
Senior Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110501
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121955 2

Page 1 of 2

Sample Number	24110501-1						
Sampled Date	Oct 02 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_ESTF_052_2550	Plot	S-31C	Site	LEAR AUTOMOTIVE(Thailand) Co.,Ltd		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment – preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.31	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500 Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Chanatt L.

Chanattajam Imchom
Senior Head
โทรศัพท์ 0-204-0008

Approved By

Kanekom Anek

Kanekom Anek
Assistant General Manager
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Analysis / Test Report

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110501
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121955 2

Page 2 of 2

Sample Number	24110501-1						
Sampled Date	Oct 02, 2024 10 30 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_052_2550	Plot	S-31C	Site	LEAR AUTOMOTIVE(Thailand) Co.,Ltd		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.010	≤0.50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Total Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.14	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chimphakkeewin (ใบอนุญาตที่ 323 ก 0020 , Pattarapol Sawangjatan (ใบอนุญาตที่ 204 ก 0002

Remark :
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Technical Management

Chanatt L.

Chanattajam Imchom
Senior Head
โทรศัพท์ 0-204-0008

Approved By

Kanekom Anek

Kanekom Anek
Assistant General Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110501
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121955 2

Page 1 of 1

Sample Number	24110501-1						
Sampled Date	Oct 02, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_052_2553		Plot	S-31C	Site	LEAR AUTOMOTIVE(Thailand) Co.,Ltd	
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.31	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Samut
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F.03	Rajm

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chimphakkeewin (ใบอนุญาตที่ 323 ก 0020 , Pattarapol Sawangjatan (ใบอนุญาตที่ 204 ก 0002

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

Technical Management

Chanatt L.

Chanattajam Imchom
Senior Head
โทรศัพท์ 0-204-0008

Approved By

Kanekom Anek

Kanekom Anek
Assistant General Manager
โทรศัพท์ 0-204-0004

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TESTING
N = 2048

Lot ID: 24110503
Date Received Oct 02, 2024
Date Reported Oct 08, 2024
Report Number 3121989 1

Page 3 of 4



TESTING

Lot ID: 24110503
Date Received Oct 02, 2024
Date Reported Oct 08, 2024
Report Number 3121959.1

Page 3 of 3

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chimphakke วัฒนคุณธิ์ 323-๙-0020, Pattarapol Sawangjitam วัฒนจุตม 204-๙-0002

Remark :

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

Dej Changchon
Senior Manager
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650555 616/10 Mar 5. 1. Maximal K₁ 2. Maximal K₂ 3. Maximal K₃ 4. Maximal K₄ 5. Maximal K₅ 6. Maximal K₆ 7. Maximal K₇ 8. Maximal K₈ 9. Maximal K₉ 10. Maximal K₁₀ 11. Maximal K₁₁ 12. Maximal K₁₂ 13. Maximal K₁₃ 14. Maximal K₁₄ 15. Maximal K₁₅ 16. Maximal K₁₆ 17. Maximal K₁₇ 18. Maximal K₁₈ 19. Maximal K₁₉ 20. Maximal K₂₀ 21. Maximal K₂₁ 22. Maximal K₂₂ 23. Maximal K₂₃ 24. Maximal K₂₄ 25. Maximal K₂₅ 26. Maximal K₂₆ 27. Maximal K₂₇ 28. Maximal K₂₈ 29. Maximal K₂₉ 30. Maximal K₃₀ 31. Maximal K₃₁ 32. Maximal K₃₂ 33. Maximal K₃₃ 34. Maximal K₃₄ 35. Maximal K₃₅ 36. Maximal K₃₆ 37. Maximal K₃₇ 38. Maximal K₃₈ 39. Maximal K₃₉ 40. Maximal K₄₀ 41. Maximal K₄₁ 42. Maximal K₄₂ 43. Maximal K₄₃ 44. Maximal K₄₄ 45. Maximal K₄₅ 46. Maximal K₄₆ 47. Maximal K₄₇ 48. Maximal K₄₈ 49. Maximal K₄₉ 50. Maximal K₅₀ 51. Maximal K₅₁ 52. Maximal K₅₂ 53. Maximal K₅₃ 54. Maximal K₅₄ 55. Maximal K₅₅ 56. Maximal K₅₆ 57. Maximal K₅₇ 58. Maximal K₅₈ 59. Maximal K₅₉ 60. Maximal K₆₀ 61. Maximal K₆₁ 62. Maximal K₆₂ 63. Maximal K₆₃ 64. Maximal K₆₄ 65. Maximal K₆₅ 66. Maximal K₆₆ 67. Maximal K₆₇ 68. Maximal K₆₈ 69. Maximal K₆₉ 70. Maximal K₇₀ 71. Maximal K₇₁ 72. Maximal K₇₂ 73. Maximal K₇₃ 74. Maximal K₇₄ 75. Maximal K₇₅ 76. Maximal K₇₆ 77. Maximal K₇₇ 78. Maximal K₇₈ 79. Maximal K₇₉ 80. Maximal K₈₀ 81. Maximal K₈₁ 82. Maximal K₈₂ 83. Maximal K₈₃ 84. Maximal K₈₄ 85. Maximal K₈₅ 86. Maximal K₈₆ 87. Maximal K₈₇ 88. Maximal K₈₈ 89. Maximal K₈₉ 90. Maximal K₉₀ 91. Maximal K₉₁ 92. Maximal K₉₂ 93. Maximal K₉₃ 94. Maximal K₉₄ 95. Maximal K₉₅ 96. Maximal K₉₆ 97. Maximal K₉₇ 98. Maximal K₉₈ 99. Maximal K₉₉ 100. Maximal K₁₀₀ 101. Maximal K₁₀₁ 102. Maximal K₁₀₂ 103. Maximal K₁₀₃ 104. Maximal K₁₀₄ 105. Maximal K₁₀₅ 106. Maximal K₁₀₆ 107. Maximal K₁₀₇ 108. Maximal K₁₀₈ 109. Maximal K₁₀₉ 110. Maximal K₁₁₀ 111. Maximal K₁₁₁ 112. Maximal K₁₁₂ 113. Maximal K₁₁₃ 114. Maximal K₁₁₄ 115. Maximal K₁₁₅ 116. Maximal K₁₁₆ 117. Maximal K₁₁₇ 118. Maximal K₁₁₈ 119. Maximal K₁₁₉ 120. Maximal K₁₂₀ 121. Maximal K₁₂₁ 122. Maximal K₁₂₂ 123. Maximal K₁₂₃ 124. Maximal K₁₂₄ 125. Maximal K₁₂₅ 126. Maximal K₁₂₆ 127. Maximal K₁₂₇ 128. Maximal K₁₂₈ 129. Maximal K₁₂₉ 130. Maximal K₁₃₀ 131. Maximal K₁₃₁ 132. Maximal K₁₃₂ 133. Maximal K₁₃₃ 134. Maximal K₁₃₄ 135. Maximal K₁₃₅ 136. Maximal K₁₃₆ 137. Maximal K₁₃₇ 138. Maximal K₁₃₈ 139. Maximal K₁₃₉ 140. Maximal K₁₄₀ 141. Maximal K₁₄₁ 142. Maximal K₁₄₂ 143. Maximal K₁₄₃ 144. Maximal K₁₄₄ 145. Maximal K₁₄₅ 146. Maximal K₁₄₆ 147. Maximal K₁₄₇ 148. Maximal K₁₄₈ 149. Maximal K₁₄₉ 150. Maximal K₁₅₀ 151. Maximal K₁₅₁ 152. Maximal K₁₅₂ 153. Maximal K₁₅₃ 154. Maximal K₁₅₄ 155. Maximal K₁₅₅ 156. Maximal K₁₅₆ 157. Maximal K₁₅₇ 158. Maximal K₁₅₈ 159. Maximal K₁₅₉ 160. Maximal K₁₆₀ 161. Maximal K₁₆₁ 162. Maximal K₁₆₂ 163. Maximal K₁₆₃ 164. Maximal K₁₆₄ 165. Maximal K₁₆₅ 166. Maximal K₁₆₆ 167. Maximal K₁₆₇ 168. Maximal K₁₆₈ 169. Maximal K₁₆₉ 170. Maximal K₁₇₀ 171. Maximal K₁₇₁ 172. Maximal K₁₇₂ 173. Maximal K₁₇₃ 174. Maximal K₁₇₄ 175. Maximal K₁₇₅ 176. Maximal K₁₇₆ 177. Maximal K₁₇₇ 178. Maximal K₁₇₈ 179. Maximal K₁₇₉ 180. Maximal K₁₈₀ 181. Maximal K₁₈₁ 182. Maximal K₁₈₂ 183. Maximal K₁₈₃ 184. Maximal K₁₈₄ 185. Maximal K₁₈₅ 186. Maximal K₁₈₆ 187. Maximal K₁₈₇ 188. Maximal K₁₈₈ 189. Maximal K₁₈₉ 190. Maximal K₁₉₀ 191. Maximal K₁₉₁ 192. Maximal K₁₉₂ 193. Maximal K₁₉₃ 194. Maximal K₁₉₄ 195. Maximal K₁₉₅ 196. Maximal K₁₉₆ 197. Maximal K₁₉₇ 198. Maximal K₁₉₈ 199. Maximal K₁₉₉ 200. Maximal K₂₀₀ 201. Maximal K₂₀₁ 202. Maximal K₂₀₂ 203. Maximal K₂₀₃ 204. Maximal K₂₀₄ 205. Maximal K₂₀₅ 206. Maximal K₂₀₆ 207. Maximal K₂₀₇ 208. Maximal K₂₀₈ 209. Maximal K₂₀₉ 210. Maximal K₂₁₀ 211. Maximal K₂₁₁ 212. Maximal K₂₁₂ 213. Maximal K₂₁₃ 214. Maximal K₂₁₄ 215. Maximal K₂₁₅ 216. Maximal K₂₁₆ 217. Maximal K₂₁₇ 218. Maximal K₂₁₈ 219. Maximal K₂₁₉ 220. Maximal K₂₂₀ 221. Maximal K₂₂₁ 222. Maximal K₂₂₂ 223. Maximal K₂₂₃ 224. Maximal K₂₂₄ 225. Maximal K₂₂₅ 226. Maximal K₂₂₆ 227. Maximal K₂₂₇ 228. Maximal K₂₂₈ 229. Maximal K₂₂₉ 230. Maximal K₂₃₀ 231. Maximal K₂₃₁ 232. Maximal K₂₃₂ 233. Maximal K₂₃₃ 234. Maximal K₂₃₄ 235. Maximal K₂₃₅ 236. Maximal K₂₃₆ 237. Maximal K₂₃₇ 238. Maximal K₂₃₈ 239. Maximal K₂₃₉ 240. Maximal K₂₄₀ 241. Maximal K₂₄₁ 242. Maximal K₂₄₂ 243. Maximal K₂₄₃ 244. Maximal K₂₄₄ 245. Maximal K₂₄₅ 246. Maximal K₂₄₆ 247. Maximal K₂₄₇ 248. Maximal K₂₄₈ 249. Maximal K₂₄₉ 250. Maximal K₂₅₀ 251. Maximal K₂₅₁ 252. Maximal K₂₅₂ 253. Maximal K<

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FOR MORE INFORMATION:



TESTING

Lot ID: 24110503
Date Received: Oct 02, 2024
Date Reported: Oct 09, 2024
Report Number: 3121989-2

Page 1 of 2



TESTING

Lot ID: 24110503
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number: J121989-2

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2561 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Watanyoo Chumphaek (หัวหน้างาน) : 323-๘ 0020 Petarapet Sawangy;

Remark :

- LOD : Limit of Detection
- *^u : Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)

Analysts' marked * e/are not included in scope of Accreditation ISO/IEC 17025

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

Lark A.I.

Section Head	Assistant General Manager
salary scale Rs.70 to Rs.6000	salary scale Rs.70 to Rs.6000

_____, *Journal of Management Education*, 20(1), 1-10.

ANALY Limited 2000





Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110503
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 31211993-3

Sample Number	24110503-1						
Sampled Date	Oct 02, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_034_2550	Plot	S-39F	Site	Faureca Emission Control Technologies Co.,Ltd		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.24	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF 24th ed., 2023, part 3125 B 3030 F	Banglor
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4520-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanryoo Chemphelee , Pattaraporn Sawangjailam

Remark :
LOD : Limit of Detection
"c" : 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.

Approved by 
Chanatt L.
Chanattagorn Jitumorn
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110504
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 31211993-1

Sample Number	24110504-1					
Sampled Date	Oct 02, 2024 10:10 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_013_2556	Plot	S 31F	Site	Port Royal Co. Ltd	
Date Analysis Commenced	Oct 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment – preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	–	2.0	0.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4580 - D G
COD	mg/L	1.5	25	248	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
Color (at Original pH)	ADMI	–	5	26	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
Color (at pH 7.0)	ADMI	–	5	25	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4520-F (D)
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
Oil & Grease	mg/L	–	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
pH (on site) *		–	–	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4520 - F (D)

Technical Management 
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

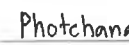


TESTING
No 0042
Lot ID: 24110504
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 31211993-1

Sample Number	24110504-1						Page 3 of 3
Sampled Date	Oct 02, 2024 10:10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_013_2556	Plot	S-31F	Site	Port Royal Co. Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.3	≤45	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	-	-	216	≤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	-	-	49	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanryoo Chemphelee , Pattaraporn Sawangjailam

Remark :
LOD : Limit of Detection
"c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110504
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 31211993-2

Sample Number	24110504-1					
Sampled Date	Oct 02, 2024 10:10 AM					
Sample Description	Wastewater					
Contract ID	L_ESIE_013_2556	Plot	S-31F	Site	Port Royal Co. Ltd	
Date Analysis Commenced	On 02, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method
Metal Testing						
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F
Barium	mg/L	0.0003	0.0005	0.11	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F
Lead	mg/L	0.0003	0.0005	0.0010	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B 3030 F

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110504
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121993-2

Sample Number	24110504-1						
Sampled Date	Oct 02, 2024 10 10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_013_2556	Plot	S_31F	Site	Port Royal Co., Ltd.		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	<0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3117	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	<1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	<0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	<0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	<5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunoy Chimphalee มัคคุเทศน์ 323-0-0020, Pattarapol Sawangjanani มัคคุเทศน์ 3204-0-0002

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

Chamatt L.
Chanattagarn Inthorn
Section Head
มัคคุเทศน์ 3204-0-0008

Approved by

Kanekorn Aek
Assistant General Manager
มัคคุเทศน์ 3204-0-0004

Results only for the laboratory. The laboratory is not responsible for the accuracy of the data. The data is for information only and should not be used for any other purpose. The laboratory is not responsible for the accuracy of the data. The data is for information only and should not be used for any other purpose.

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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110507
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121994-1

Sample Number	24110507-1						
Sampled Date	Oct 02, 2024 10:40 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_046_2550	Plot	S-31G	Site	FMP Group (Thailand) Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	138	<500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 5200 C	Rayong
COD	mg/L	1.5	25	338	<750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 5200 C	Rayong
Color (at Original pH)	ADNU		5	127	<600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADNU		5	125	<600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	<0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI, (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	<1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L		3	5	<10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *				7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.
Photchanas Seeda
มัคคุเทศน์ 3123-0-0024

Approved by

Dej Changchon
Senior Manager
มัคคุเทศน์ 3123-0-0001

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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110504
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121993-3

Sample Number	24110504-1						
Sampled Date	Oct 02, 2024 10:10 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_013_2556	Plot	S-31F	Site	Port Royal Co.,Ltd		
Date Analysis Commenced	Oct 03 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply in pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odor, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Cadmium	mg/L	0.003	0.005	0.61	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (C)	Rayong
Guideline: Notification of the Industrial Estate Authority of Thailand NO 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By : Wanwong Ounphakee , Pattarapol Sawangkotom							
Remark:							
* LOD : Limit of Detection							
* LQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)							
Analysis is marked * is not included in scope of Accreditation ISO/IEC 17025							
The laboratory has been accepted in an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wanunoy Chimphalee มัคคุเทศน์ 323-0-0020, Pattarapol Sawangjanani มัคคุเทศน์ 3204-0-0002

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

Chamatt L.
Chanattagarn Inthorn
Section Head
มัคคุเทศน์ 3204-0-0008

Approved by

Kanekorn Aek
Assistant General Manager
มัคคุเทศน์ 3204-0-0004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110507
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121994-1

Sample Number	24110507-1						
Sampled Date	Oct 02, 2024 10:40 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_046_2550	Plot	S 31G	Site	FMP Group (Thailand) Ltd.		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.28	<1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.9	<45	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	232	<1000	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	47	<200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By : Wanuyoo Chomphalee นวณัฐวาท ๖-123-๔-0010 , Pattaraporn Siwangsartman นวณัฐวาท ๖-204-๖-0002							
Remark							
*LOD : Limit of Detection							
** : Above Min. LOQ (Limit of Quantitation) / LOQ (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							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wanunoy Chimphalee มัคคุเทศน์ 323-0-0020, Pattarapol Sawangjanani มัคคุเทศน์ 3204-0-0002

Remark :
LOD : Limit of Detection
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Technical Management

Photchanas S.
Photchanas Seeda
มัคคุเทศน์ 3123-0-0024

Approved by

Dej Changchon
Senior Manager
มัคคุเทศน์ 3123-0-0001

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location: ESIE

TESTING
No 0009
Lot ID: 24110507
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121994-2

Page 1 of 3

Sample Number:	24110507-1						
Sampled Date:	Oct 02, 2024 10:40 AM						
Sample Description:	Wastewater						
Contract ID:	LE_EST_046_2550		Plot: S-31G		Site: FMP Group (Thailand) Ltd.		
Date Analysis Commenced:	Oct 03, 2024						
Condition of Sample:	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment.						
Physical Property:	Yellow, a lot of odor, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.20	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.07	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500 C-8	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management *Chunattagorn L.* Approved by *Leak A.*
Chunattagorn Jirachom
Section Head
โทรศัพท์ 0-204-4-0008
Kasikorn Anik
Assistant General Manager
โทรศัพท์ 0-204-4-0004

[illegible]

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 B. Rajendra Prasad, Asst. Secy. T. S. Sankar



Analysis / Test Report

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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110507
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121954-2

Page 2 of 2

Sample Number	24113557-1							Page 1 of 2
Sample Date	Oct 02, 2024 10:40 AM							
Sample Description	Wastewater							
Contract ID	L_ESSE_046_2550	Plot	S-31G	Site	PMF Group (Thailand) Ltd			
Date Analysis Commenced	Oct 03, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of colour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metallic Testing								
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0001	0.0005	0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.19	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Warunyo Chomphalee โทรสาร ๐-๒๒๓-๔๐๐๒๐, Pattarapol Sawangjatan โทรสาร ๐-๒๒๓-๔๐๐๐๒

Remark 1:

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Technical Management *Channatt L.* Approved by *Varad Anil*
Channarayana Imchan Kanakkorn Anek
Section Head Assistant General Manager
YU/GEN/MS/1-204-2-0004 YU/GEN/MS/1-204-2-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rajong) Co., Ltd
112 Moo 4 Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O

Project Name Random Check

Project Location ESIE

TESTING
No 0009
Lot ID: 24110507
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number 3121994-3

Page 2 of 4

Sample Number	741110507-1						
Sample Date	Oct 02, 2024 10:40 AM						
Sample Description	Wastewater						
Contract ID	L_ESTTE_046_2550	Pilot	S-31G	Site FHP Group (Thailand) Ltd			
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Examined in two glass vials: one amber glass bottle and seven plastic bottles; sample containers comply to pretreatment preservation standards (APHA, USEPA).						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.65	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 31.25 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Varunyoo Chmphahee , Pattarapoi Sawangkeam

Remarks

LQD : Limit of Detection
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Approved by Chamatt L.
Chenattagam Innom
Section Head

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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Buakdaeng, Amphur Buakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110508
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121826-1

Abstract

Sample Number	24110508.1						
Sampled Date	Oct 02, 2024 9:20 AM						
Sample Description	Wastewater						
Contract ID	L_ESITE_016_2580		Plot	S-31H	Site	Avery Demicon (Thailand) Ltd.	
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, US EPA)						
Physical Property	Yellow, a lot of odour, solid and hazy						
Analyte	Unit	LOD	LOQ (µg/L)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	39.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, 5210 C & 5210 G G	Rayong
COD	mg/L	1.5	25	80	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMT	-	5	41	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMT	-	5	39	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Formaldehyde	mg/L	0.03	0.1	0.3	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 H (5)	Rayong

Technical Management

Photchanas
Prechana Sods
Scientist (I)
โทรศัพท์ 2-323-2-0226

Approved by 
Dej Changchan
Senior Manager
โทรศัพท์ 1-323-8-0001

Small data sets are used to illustrate the proposed method. The results are compared with those of the existing methods. The proposed method is shown to be effective in detecting outliers in small data sets.

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Analysis / Test Report

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110508
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3121996-1

Page 2 of 3

Sample Number	24110508-1							Page 1 of 1
Sampled Date	Oct 02, 2024 9:20 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_016_2550 Plot 5-31H Site Avery Dennison (Thailand) Ltd							
Date Analysis Commenced	Oct 02, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 5530 D	Rayong	
Temperature *	Degree C	-	-	32.1	≤45	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	104	≤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	23	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunoo Chiraphakke วัฒนะวนู 323-4-0020, Patrapol Savangjattam วัฒราปอล 204-4-0002

Remark :

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Technical Management

Photchanas S.
Photchanas Seeds
Secretary (+)
whatsapp: 91323-4-0020

Approved by

Dei Changchom
Senior Manager
whatsapp: 91323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110508
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121996-2

Page 1 of 2

Sample Number	24110508-1						
Sampled Date	Oct 02, 2024 9:20 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_016_2550	Plot	5-31H	Site	Avery Dennison (Thailand) Ltd		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.10	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagom Limchom
Section Head
whatsapp: 91323-4-0008

Approved by

Kanetom Anek
Assistant General Manager
whatsapp: 91323-4-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110508
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121996-2

Page 2 of 2

Sample Number	24110508-1							Page 2 of 2
Sampled Date	Oct 02, 2024 9:20 AM							
Sample Description	Wastewater							
Contract ID	L-ESIE_016_2550 Plot 5-31H Site Avery Dennison (Thailand) Ltd							
Date Analysis Commenced	Oct 04, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunoo Chiraphakke วัฒนะวนู 323-4-0020, Patrapol Savangjattam วัฒราปอล 204-4-0002

Remark :

LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * : Note 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

Chanatt L.
Chanattagom Limchom
Section Head
whatsapp: 91323-4-0008

Approved by

Kanetom Anek
Assistant General Manager
whatsapp: 91323-4-0004

Results apply to the laboratory, as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.
ALS Laboratory Using Chemicals: Single-use reagents. All reagents are stored under the specified conditions. The report is not valid if the reagents are not stored as specified.

103/115 RTD/10 Moo 5, T. Thammachai, K. Puakdaeng, Rayong 21140 Thailand. TEL: +66 0 2760 3197 FAX: +66 0 2760 3197
E-MAIL: info@alsglobal.com Website: www.alsglobal.com An ALS Limited Company



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110508
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3121996-3

Page 1 of 1

Page 1 of 1							
Sample Number	24110508-1						
Sampled Date	Oct 02, 2024 9:20 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_016_2550		Plot	5-31H	Site	Avery Dennison (Thailand) Ltd	
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.85	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunoo Chiraphakke วัฒนะวนู 323-4-0020, Patrapol Savangjattam วัฒราปอล 204-4-0002

Remark :

LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * : Note 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

Chanatt L.
Chanattagom Limchom
Section Head
whatsapp: 91323-4-0008

Approved by

Kanetom Anek
Assistant General Manager
whatsapp: 91323-4-0004

Results apply to the laboratory, as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or any form without written consent from the laboratory.
ALS Laboratory Using Chemicals: Single-use reagents. All reagents are stored under the specified conditions. The report is not valid if the reagents are not stored as specified.

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E-MAIL: info@alsglobal.com Website: www.alsglobal.com An ALS Limited Company



Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110511
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3122006-1

Page 1 of 2

Sample Number : 24110511-1
Sampled Date : Oct 07, 2024 3:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_012_2564 Plot : S 248 Site : KING Furniture Thai Company Limited.
Date Analysis Commenced : Oct 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	48.8	≤500	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	147	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADCU	-	5	129	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5120 F	Rayong
Color (at pH 7.0)	ADCU	-	5	127	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (C, B)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5330 B	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5330 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchanas.
Photchanas Sorns
Section Head
โทรศัพท์ 0-327-9-0026

Approved by

D. Chanchon
Dej Chanchon
Senior Manager
โทรศัพท์ 0-323-9-0001

Result apply to the sampling as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any form without written consent from the laboratory. All laboratory results are preliminary and subject to change. Sample containers must be kept at 4°C until analysis.

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24110511
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3122006-1

Page 2 of 2

Sample Number : 24110511-1
Sampled Date : Oct 07, 2024 3:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_012_2564 Plot : S 248 Site : KING Furniture Thai Company Limited
Date Analysis Commenced : Oct 07, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol *	mg/L	0.005	0.01	0.12	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.6	≤45	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	300	≤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 105-105 degree C	mg/L	-	5	38	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kinnun โทรศัพท์ 0-323-9-0019, Kardsundt Kusumapant โทรศัพท์ 0-204-9-0001

Remark

LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
Analytical method : None not included in scope of accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Photchanas.
Photchanas Sorns
Section Head
โทรศัพท์ 0-327-9-0026

Approved by

D. Chanchon
Dej Chanchon
Senior Manager
โทรศัพท์ 0-323-9-0001

Result apply to the sampling as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any form without written consent from the laboratory. All laboratory results are preliminary and subject to change. Sample containers must be kept at 4°C until analysis.

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110511
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3122006-2

Page 1 of 2

Sample Number : 24110511-1
Sampled Date : Oct 07, 2024 3:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_012_2564 Plot : S 248 Site : KING Furniture Thai Company Limited.
Date Analysis Commenced : Oct 08, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.06	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagorn Inthorn
Section Head
โทรศัพท์ 0-204-9-0005

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-9-0004

Result apply to the sampling as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any form without written consent from the laboratory. All laboratory results are preliminary and subject to change. Sample containers must be kept at 4°C until analysis.

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24110511
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3122006-2

Page 2 of 2

Sample Number : 24110511-1
Sampled Date : Oct 07, 2024 3:05 PM
Sample Description : Wastewater
Contract ID : L_ESIE_012_2564 Plot : S 248 Site : KING Furniture Thai Company Limited
Date Analysis Commenced : Oct 08, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property : Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.009	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	0.01	<0.01		≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.86	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wasan Kinnun โทรศัพท์ 0-323-9-0019, Kardsundt Kusumapant โทรศัพท์ 0-204-9-0001

Remark

LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
Analytical method : None not included in scope of accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management

Chanatt L.
Chanattagorn Inthorn
Section Head
โทรศัพท์ 0-204-9-0005

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
โทรศัพท์ 0-204-9-0004

Result apply to the sampling as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any form without written consent from the laboratory. All laboratory results are preliminary and subject to change. Sample containers must be kept at 4°C until analysis.

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110511
Date Received Oct 07, 2024
Date Reported Oct 15, 2024
Report Number 3122006-3

Sample Number 24110511-1
Sampled Date Oct 07, 2024 3:05 PM
Sample Description Wastewater
Contract ID L_ESIE_012_2564 Plot S-248 Site KONG Furniture The Company Limited
Date Analysis Commenced Oct 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.05	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Krunb , Kongsudthi Kiatsevanat

Remarks
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOQ (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.

Approved by

Chanatt L.
Chanattagarn Imchom
Section Head

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110512
Date Received Oct 02, 2024
Date Reported Oct 06, 2024
Report Number 3122006-1

Sample Number 24110512-1
Sampled Date Oct 02, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_ESIE_150_2550 Plot S-300-30E Site NIPPON STEEL Steel Processing (Thailand) Co., Ltd
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5510 D	Rayong
Temperature *	Degree C			34.3	≤45	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	1500	≤1000	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	6	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Watanayon Chomphalee 3122006-1, Patirapong Sawangkanon 3122006-2, 3122006-3

Remarks
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOQ (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

Photchanas.
Photchanas Seeda
Section Head
3122006-1-323-0002

Approved by

Dej Chongchon
Senior Manager
3122006-1-323-0001

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110512
Date Received Oct 02, 2024
Date Reported Oct 06, 2024
Report Number 3122006-1

Sample Number 24110512-1
Sampled Date Oct 02, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_ESIE_150_2550 Plot S-300-30E Site NIPPON STEEL Steel Processing (Thailand) Co., Ltd
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	<2.0	≤500	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	≤750	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	<5	≤600	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	<5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L			<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *				7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - r (8)	Rayong

Technical Management

Photchanas.
Photchanas Seeda
Section Head
3122006-1-323-0002

Approved by

Dej Chongchon
Senior Manager
3122006-1-323-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110512
Date Received Oct 02, 2024
Date Reported Oct 06, 2024
Report Number 3122006-2

Sample Number 24110512-1
Sampled Date Oct 02, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_ESIE_150_2550 Plot S-300-30E Site NIPPON STEEL Steel Processing (Thailand) Co., Ltd
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.004	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagarn Imchom
Section Head
3122006-1-323-0002

Approved by

Kanokkorn Anon
Assistant General Manager
3122006-1-323-0004

115-104 Phrasathanak 40 Phrasathanak Rd. Khwaeng Phrasathanak Khet Suan Luang Bangkok 10250 Thailand TEL: +66 0 2760 3300 FAX: +66 0 2760 8556

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No.0009
Lot ID: 24110513
Date Received Oct 07, 2024
Date Reported Oct 15, 2024
Report Number : 3122009-2

Page 1 of 2

Sample Number	24110513-1						
Sampled Date	Oct 07, 2024 9:47 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_104_2550 Plot 5-42 Site Nissinbo Sombon Automotive Co., Ltd						
Date Analysis Commenced	Oct 08, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.009	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.0003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Chamatt L.
Chanatagarn Inthorn
Section Head
โทรศัพท์ : 02-04-00008

Approved by

Kanokkorn Anis
Assistant General Manager
โทรศัพท์ : 02-04-00004

Results apply to the sample as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any retrieval system without the written consent from the laboratory. (ALS Laboratory Group) Please strictly observe the rules, regulations and conditions of use of this report.

45/154 หมู่ 4 ถนนพหลโยธิน 40 Phrasihanak Rd. Khwaeng Phrasihanak, Khet Suan Luang, Bangkok 10350 Thailand. TEL : +66 0 2760 3000 FAX : +66 0 2760 3197
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No.0009
Lot ID: 24110513
Date Received Oct 07, 2024
Date Reported Oct 15, 2024
Report Number : 3122009-2

Page 2 of 2

Sample Number	24110513-1						
Sampled Date	Oct 07, 2024 9:47 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_104_2550 Plot 5-42 Site Nissinbo Sombon Automotive Co., Ltd						
Date Analysis Commenced	Oct 08, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.61	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Warunyo Chomphakhe โทรศัพท์ : 02-323-0020, Samart Khumplee โทรศัพท์ : 02-04-00004

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

Chamatt L.
Chanatagarn Inthorn
Section Head
โทรศัพท์ : 02-04-00008

Approved by

Kanokkorn Anis
Assistant General Manager
โทรศัพท์ : 02-04-00004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No.0009
Lot ID: 24110513
Date Received Oct 07, 2024
Date Reported Oct 15, 2024
Report Number : 3122009-1

Page 1 of 1

Sample Number	24110513-1						
Sampled Date	Oct 07, 2024 9:47 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_104_2550 Plot 5-42 Site Nissinbo Sombon Automotive Co., Ltd						
Date Analysis Commenced	Oct 08, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.39	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (B)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Warunyo Chomphakhe , Samart Khumplee

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.

Approved by

Chamatt L.
Chanatagarn Inthorn
Section Head

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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No.0042
Lot ID: 24110514
Date Received Oct 02, 2024
Date Reported Oct 08, 2024
Report Number : 3122012-1

Page 1 of 2

Sample Number	24110514-1						
Sampled Date	Oct 02, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2560 Plot Q 08.09.12 Site BASF CHEMCAT (THAILAND) LIMITED						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, B191 F 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤150	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B	Rayong
Color (at Original pH)	ADMI	-	5	11	≤600	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	11	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 C (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2008	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5200 B	Rayong
pH (at 20°C) *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - (B)	Rayong

Technical Management

Photichana S.
Photichana Seeda
Scientist (A)
โทรศัพท์ : 02-323-0000

Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ : 02-323-00001

Results apply to the sample as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any retrieval system without the written consent from the laboratory. (ALS Laboratory Group) Please strictly observe the rules, regulations and conditions of use of this report.

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No. 0042
Lot ID: 24110514
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3122012-1

Page 2 of 2

Sample Number	24110514-1						
Sampled Date	Oct 02, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2560 Plot Q 08,09,12 Site BASF CHEMCAT (THAILAND) LIMITED						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9125 B, 3030 F	Rayong
Temperature *	Degree C	-	-	33.6	≤35	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	156	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103.105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chomphavee มิสเตอร์ 3123-0-0020, Pattarapol Sawangjitam มิสเตอร์ 3124-0-0002

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

Photchanas S.
Prachana Seeda
Scientist (A)
มิสเตอร์ 3123-0-0020

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
มิสเตอร์ 3123-0-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No. 0009
Lot ID: 24110514
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3122012-2

Page 1 of 1

Sample Number	24110514-1						
Sampled Date	Oct 02, 2024 2:40 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2560 Plot Q 08,09,12 Site BASF CHEMCAT (THAILAND) LIMITED						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagarn Indhom
Section Head
มิสเตอร์ 3124-0-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
มิสเตอร์ 3124-0-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No. 0009
Lot ID: 24110514
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3122012-2

Page 2 of 2

Sample Number	24110514-1						
Sampled Date	Oct 02, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2560 Plot Q 08,09,12 Site BASF CHEMCAT (THAILAND) LIMITED						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0003	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chomphavee มิสเตอร์ 3123-0-0020, Pattarapol Sawangjitam มิสเตอร์ 3124-0-0002

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

Chanatt L.
Chanattagarn Indhom
Section Head
มิสเตอร์ 3124-0-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
มิสเตอร์ 3124-0-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No. 0009
Lot ID: 24110514
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3122012-2

Page 1 of 1

Sample Number	24110514-1						
Sampled Date	Oct 02, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_001_2560 Plot Q 08,09,12 Site BASF CHEMCAT (THAILAND) LIMITED						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.04	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F +	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chomphavee มิสเตอร์ 3123-0-0020, Pattarapol Sawangjitam มิสเตอร์ 3124-0-0002

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

Chanatt L.
Chanattagarn Indhom
Section Head
มิสเตอร์ 3124-0-0008

Approved by

Chanatt L.
Chanattagarn Indhom
Section Head
มิสเตอร์ 3124-0-0008

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0009
Lot ID: 24110515
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3122013-3

Page 1 of 2

Sample Number	24110515-1						
Sampled Date	Oct 07, 2024 9:25 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_022_2550	Plot	S-40	Site	BASF (Tha) Limited		
Date Analysis Commenced	Oct 08, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, a lot of solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.57	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3510 B, 3520 F	Rayong
Water Testing							
Ammonia Nitrogen *	mg/L	0.05	0.1	3.8	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 NH3 (D)	Rayong
Conductivity at 25 Degree C *	microhm/cm	-	0.5	792	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Fluoride as F *	mg/L	0.05	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.45	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 NO3 (E)	Rayong
Phosphate as P *	mg/L	0.002	0.005	1.315	No Standard	In house method based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chumphahue, Samant Khumphuee

Notes :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytes marked * are not included in scope of Accreditation ISO/IEC 17025

Approved by

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Section Head

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ANALYSIS REPORT (TEST REPORT) - Life Sciences - An ALS Limited Company

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0042
Lot ID: 24110516
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3122017-1

Page 1 of 2

Sample Number	24110516-1						
Sampled Date	Oct 02, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_004_2559	Plot	Q 05 06	Site	Y M (Thailand) Co., Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	46.8	≤500	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	122	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 D	Rayong
Color (at Original pH)	ADMI	-	5	16	≤600	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	13	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis method, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5510 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

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Approved by

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Senior Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0009
Lot ID: 24110515
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3122013-3

Page 2 of 2

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

Chanatt L.
Chanattagum Inthorn
Section Head

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0042
Lot ID: 24110516
Date Received : Oct 02, 2024
Date Reported : Oct 08, 2024
Report Number : 3122017-1

Page 2 of 2

Sample Number	24110516-1						
Sampled Date	Oct 02, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_004_2559	Plot	Q 05 06	Site	Y M (Thailand) Co., Ltd		
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	428	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2510 C	Rayong
Total Suspended Solids Dried at 105-105 degree C	mg/L	-	5	32	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2510 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanunyo Chumphahue, Patparapatt Sawangkanam, Wanunyo Chumphahue

Notes :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytes 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.

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name: Random Check
Project Location: ESIE

TESTING
No 0009
Lot ID: 24110516
Date Received: Oct 02, 2024
Date Reported: Oct 09, 2024
Report Number: 3122017-2

Sample Number	24110516-1							Page 1 of 1
Sampled Date	Oct 02, 2024 3:10 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_004_2559 Plot Q 05 06 Site Y M (Thailand) Co., Ltd							
Date Analysis Commenced	Oct 03, 2024							
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)							
Physical Property	Yellow, a lot of odour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.0005	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.03	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-C-8	Bangkok	
Lead	mg/L	0.0003	0.0005	0.02	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	

Technical Management

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Section Head
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Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name: Random Check
Project Location: ESIE

TESTING
No 0009
Lot ID: 24110516
Date Received: Oct 02, 2024
Date Reported: Oct 09, 2024
Report Number: 3122017-2

Sample Number	24110516-1						
Sampled Date	Oct 02, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_004_2559 Plot Q 05 06 Site Y M (Thailand) Co. Ltd						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Total Chromium *	mg/L	0.001	0.01	0.05	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.97	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater discharge into central wastewater treatment systems in Industrial Estates							
Sampling By: Warunyo Chhampheerakulchai 1-323-4-0020, Pitsarak Saengsakdarn 1-294-1-0002							
Remark:							
LOD : Limit of Detection							
* * : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)							
Analytic method : all 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							

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567: General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By: Wanunoy Chumphae Pattarapol Sewangasarn โทรศัพท์ 02-2760 3100

Remarks:
LOD: Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (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

Channatt L.
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Section Head
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Approved by

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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name: Random Check
Project Location: ESIE

TESTING
No 0009
Lot ID: 24110516
Date Received: Oct 02, 2024
Date Reported: Oct 09, 2024
Report Number: 3122017-3

Sample Number	24110516-1						Page 1 of 2
Sampled Date	Oct 02, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_004_2559	Plot	Q 05.06	Site	Y M (Thailand) Co.,Ltd		
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.82	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (10)	Rayong

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567: General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By: Wanunoy Chumphae Pattarapol Sewangasarn

Remarks:
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Approved by

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Section Head

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name: Random Check
Project Location: ESIE

TESTING
No 0042
Lot ID: 24110517
Date Received: Oct 02, 2024
Date Reported: Oct 08, 2024
Report Number: 3122018-1

Sample Number	24110517-1						
Sampled Date	Oct 02, 2024 9 35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_151_2550		Plot	S-31D	Site	NIPPON STEEL Steel Processing (Thailand) Co., Ltd	
Location	Factory 2						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	1	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 O C	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 D	Rayong
Color (at Original pH)	ADMI	1	5	<5	≤600	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	1	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 C (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	1	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *				7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 H (1)	Rayong

Technical Management

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Section Head
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Approved by

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Senior Manager
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Analysis / Test Report

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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0042
Lot ID: 24110517
Date Received Oct 02, 2024
Date Reported Oct 06, 2024
Report Number 3122018-1

Page 2 of 2

Sample Number	24110517-1						
Sampled Date	Oct 02, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_151_2550						
Plot	S-310						
Site	NIPPON STEEL Steel Processing (Thailand) Co. Ltd						
Location	Factory 2						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 D.3030 F	Rayong
Temperature *	Degree C	-	-	32.5	≤45	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3500 E	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	340	≤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	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Warunyo Chomphalee รหัสประจำตัว 3-323-0-0020 , Pattarapol Sawangjatan รหัสประจำตัว 3-204-0-0002

Remark :
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (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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Photchana Seeda
Section Head
รหัสประจำตัว 3-323-0-0028

Approved by

D. Chongchong

Dij Chongchong
Senior Manager
รหัสประจำตัว 3-204-0-0001

Addressing to the sample(s) as submitted, unless the sample(s) was forwarded by ALS. For part of this report may be reproduced or any form without written consent from the laboratory.

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0009
Lot ID: 24110517
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number 3122018-1

Page 1 of 2

Sample Number	24110517-1						
Sampled Date	Oct 02, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_151_2550						
Plot	S-310						
Site	NIPPON STEEL Steel Processing (Thailand) Co. Ltd						
Location	Factory 2						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Dissolved Chromium	mg/L	0.0003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Chanatt L.

Chanattagim Jirachon
Section Head
รหัสประจำตัว 3-204-0-0008

Approved by

Kanokorn A.

Kanokorn Anik
Assistant General Manager
รหัสประจำตัว 3-204-0-0004

Addressing to the sample(s) as submitted, unless the sample(s) was forwarded by ALS. For part of this report may be reproduced or any form without written consent from the laboratory.

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING

No 0009
Lot ID: 24110517
Date Received Oct 02, 2024
Date Reported Oct 05, 2024
Report Number 3122018-2

Page 2 of 2

Sample Number	24110517-1						
Sampled Date	Oct 02, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_151_2550						
Plot	S-310						
Site	NIPPON STEEL Steel Processing (Thailand) Co. Ltd						
Location	Factory 2						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.0006	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Total Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Warunyo Chomphalee รหัสประจำตัว 3-323-0-0020 , Pattarapol Sawangjatan รหัสประจำตัว 3-204-0-0002

Remark :
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (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

Chanatt L.

Chanattagim Jirachon
Section Head
รหัสประจำตัว 3-204-0-0008

Approved by

Kanokorn A.

Kanokorn Anik
Assistant General Manager
รหัสประจำตัว 3-204-0-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING

No 0009
Lot ID: 24110517
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number 3122018-3

Page 1 of 1

Sample Number	24110517-1						
Sampled Date	Oct 02, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_151_2550						
Plot	S-310						
Site	NIPPON STEEL Steel Processing (Thailand) Co. Ltd						
Location	Factory 2						
Date Analysis Commenced	Oct 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.11	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3500-F (1)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Warunyo Chomphalee รหัสประจำตัว 3-323-0-0020 , Pattarapol Sawangjatan รหัสประจำตัว 3-204-0-0002

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

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ADDRESS: 104 Phrahitthakan Rd. Phrahitthakan Rd., Khwaeng Phrahitthakan, Thon Buri Suburb, Bangkok 10250 Thailand. Phone: +66 0 2760 3100 F: +66 0 2760 3107

ADDRESS: 104 Phrahitthakan Rd. Phrahitthakan Rd., Khwaeng Phrahitthakan, Thon Buri Suburb, Bangkok 10250 Thailand. Phone: +66 0 2760 3100 F: +66 0 2760 3107

ADDRESS: 104 Phrahitthakan Rd. Phrahitthakan Rd., Khwaeng Phrahitthakan, Thon Buri Suburb, Bangkok 10250 Thailand. Phone: +66 0 2760 3100 F: +66 0 2760 3107

ADDRESS: 104 Phrahitthakan Rd. Phrahitthakan Rd., Khwaeng Phrahitthakan, Thon Buri Suburb, Bangkok 10250 Thailand. Phone: +66 0 2760 3100 F: +66 0 2760 3107

ADDRESS: 104 Phrahitthakan Rd. Phrahitthakan Rd., Khwaeng Phrahitthakan, Thon Buri Suburb, Bangkok 10250 Thailand. Phone: +66 0 2760 3100 F: +66 0 2760 3107

ADDRESS: 104 Phrahitthakan Rd. Phrahitthakan Rd., Khwaeng Phrahitthakan, Thon Buri Suburb, Bangkok 10250 Thailand. Phone: +66 0 2760 3100 F: +66 0 2760 3107



Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110518
Date Received : Oct 02, 2024
Date Reported : Oct 06, 2024
Report Number : 3122020-1

Page 1 of 2

Sample Number	24110518-1										
Sampled Date	Oct 02, 2024 2:55 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_009_2566										
Plot	Q 15		Site		NPC SIAM Co. Ltd						
Date Analysis Commenced	Oct 02, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Water Testing											
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - G (B)	Rayong				
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong				
Color (at 430 nm pH)	ADME	-	5	3	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong				
Color (at pH 7.0)	ADME	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong				
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong				
Formaldehyde	mg/L	0.03	0.4	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong				
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B	Rayong				
pH (on site) *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-H (B)	Rayong				

Technical Management
Photchanas S.
Photchanas Seeda
Scientist (4)
โทรศัพท์ 0-2323-00028

Approved by
Dej Chongchon
Senior Manager
โทรศัพท์ 0-2323-00001

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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110518
Date Received : Oct 02, 2024
Date Reported : Oct 06, 2024
Report Number : 3122020-1

Page 1 of 2

Sample Number	24110518-1											Page 2 of 2
Sampled Date	Oct 02, 2024 2:55 PM											
Sample Description	Wastewater											
Contract ID	L_ESIE_009_2566		Plot	Q 15	Site	NPC SIAM Co.,Ltd						
Date Analysis Commenced	Oct 02, 2024											
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)											
Physical Property	Yellow, some odour, solid and no turbid											
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location					
Water Testing												
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong					
Temperature *	Degree C	-	-	31.7	≤15	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	172	≤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	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong					
Guideline: Notification of the Industrial Estate Authority of Thailand No 028/2567 * General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.												
Sampling By: Wairunya Chumphae ทรูนิภาวรา ๙ 323 ๙-0020 , Patsapol Sawangjarnam ภัตตะพล ๙ 204 ๙-0062												
Remark												
LOD = Limit of Detection												
* "4" Lower than LOD (Limit of Quantitation) / LOQ (Limit of Reporting)												
Analysis(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.												

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Watanapong Chumphakhae โทรศัพท์ 0-2323-00020, Pattarapong Sawangjanam โทรศัพท์ 0-204-00002

Remark:
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* * Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
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Technical Management
Photchanas S.
Photchanas Seeda
Scientist (4)
โทรศัพท์ 0-2323-00028

Approved by
Dej Chongchon
Senior Manager
โทรศัพท์ 0-2323-00001

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Analysis / Test Report

Client: Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110518
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3122020-2

Page 1 of 2

Sample Number	24110518-1										
Sampled Date	Oct 02, 2024 2:55 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_009_2566			Plot	Q 15	Site	NPC SIAM Co. Ltd				
Date Analysis Commenced	Oct 03, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Manganese	mg/L	0.0003	0.0005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				

Technical Management
Chanatt L.
Chanattam Inthorn
Section Head
โทรศัพท์ 0-204-00007

Approved by
Kanokorn Anuk
Assistant General Manager
โทรศัพท์ 0-204-00004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110518
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3122020-2

Page 1 of 2

Page 2 of 2

Sample Number	24110518-1										
Sampled Date	Oct 02, 2024 2:55 PM										
Sample Description	Wastewater										
Contract ID	L_ESIE_009_2566		Plot	Q 15	Site	NPC SIAM Co., Ltd.					
Date Analysis Commenced	Oct 03, 2024										
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)										
Physical Property	Yellow, some odour, solid and no turbid										
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location				
Metals Testing											
Mercury *	mg/L	0.0003	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok				
Nickel	mg/L	0.0003	0.0005	0.001	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				
Zinc	mg/L	0.003	0.005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok				

Guideline: *Notification of the Industrial Estate Authority of Thailand No.329/2567 : General Standards for Wastewater Discharge into Central wastewater treatment systems in Industrial Estates.

Sampling By: มานพพณ ชิงเหลืงมัย ม.ล

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 - General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Watanapong Chumphakhae โทรศัพท์ 0-2323-00020, Pattarapong Sawangjanam โทรศัพท์ 0-204-00002

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

Technical Management
Chanatt L.
Chanattam Inthorn
Section Head
โทรศัพท์ 0-204-00007

Approved by
Kanokorn Anuk
Assistant General Manager
โทรศัพท์ 0-204-00004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110518
Date Received Oct 02, 2024
Date Reported Oct 05, 2024
Report Number 3122020-3

Sample Number 24110518-1
Sample Date Oct 02, 2024 2:55 PM
Sample Description Wastewater
Contract ID L_ESIE_001_2566 Plot Q 15 Site NPC STEAM Co. Ltd
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Iron	mg/L	0.003	0.005	0.14	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline: Notification of the Industrial Estate Authority of Thailand no 029/2567: General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By: Warunyo Chimpahalee - Pattarapol Sawangjaitam

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

Approved by

Chanatt L.
Chanattagarn Inthorn
Section Head

404 PLO 104 Phantangan 40 Phantangan Rd. Khwaeng Phantangan, Mueang Phantangan, Bangkok 10250 Thailand. Tel: +66 0 2760 3000 Fax: +66 0 2760 3197

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110519
Date Received Oct 02, 2024
Date Reported Oct 06, 2024
Report Number 3122021-1

Sample Number 24110519-1
Sample Date Oct 02, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_ESIE_011_2566 Plot Q 16 Site GOSHU KOHSAN Co. Ltd
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

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	≤500	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	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADPH	-	5	25	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Rayong
Color (at pH 7.0)	ADPH	-	5	22	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Rayong
Cyanide as HCN ⁻	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 CH (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	-	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site)	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
มือถือ 09-1233-0020

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
มือถือ 09-1233-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110519
Date Received Oct 02, 2024
Date Reported Oct 06, 2024
Report Number 3122021-1

Sample Number 24110519-1
Sample Date Oct 02, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_ESIE_011_2566 Plot Q 16 Site GOSHU KOHSAN Co. Ltd
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 D	Rayong
Temperature	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2520 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	148	≤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 ±0.5 degree C	mg/L	-	5	7	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline: Notification of the Industrial Estate Authority of Thailand no 029/2567: General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By: Warunyo Chimpahalee - Pattarapol Sawangjaitam

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

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
มือถือ 09-1233-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110519
Date Received Oct 02, 2024
Date Reported Oct 05, 2024
Report Number 3122021-2

Sample Number 24110519-1
Sample Date Oct 02, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_ESIE_011_2566 Plot Q 16 Site GOSHU KOHSAN Co. Ltd
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.009	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagarn Inthorn
Section Head
มือถือ 09-1233-0020

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
มือถือ 09-1233-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110519
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number 3122021-2

Sample Number 24110519-1
Sampled Date Oct 02, 2024 2 10 PM
Sample Description Wastewater
Contract ID L_ESIE_011_2566 Plot Q 16 Site GOSHU KOHSAN Co., Ltd.
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chimpalee รหัสประจำตัว 323-4-0030 , Patarat Sawangatham รหัสประจำตัว 324-4-0002

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

Charatt L.
Charattagarn Imchon
Section Head
รหัสประจำตัว 324-4-0008

Approved by

Kankom Anek
Kankom Anek
Assistant General Manager
รหัสประจำตัว 324-4-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24110519
Date Received Oct 02, 2024
Date Reported Oct 09, 2024
Report Number 3122021-3

Sample Number 24110519-1
Sampled Date Oct 02, 2024 2 10 PM
Sample Description Wastewater
Contract ID L_ESIE_011_2566 Plot Q 16 Site GOSHU KOHSAN Co., Ltd.
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.38	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanuyoo Chimpalee รหัสประจำตัว 323-4-0030 , Patarat Sawangatham รหัสประจำตัว 324-4-0002

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

Approved by

Charatt L.
Charattagarn Imchon
Section Head

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110502
Date Received Oct 08, 2024
Date Reported Oct 15, 2024
Report Number 3137379-1

Sample Number 24110502-1
Sampled Date Oct 08, 2024 2 53 PM
Sample Description Wastewater
Contract ID L_ESIE_083_2550 Plot S-31E Site Logistics Advance (Thailand) Co., Ltd.
Location Head Office
Date Analysis Commenced Oct 08, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	54.1	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4300 - O G	Rayong
COD	mg/L	1.5	25	163	≤750	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	81	≤600	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	78	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, D)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual: Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (a)	Rayong

Technical Management

Photchan S.
Photchan Seeda
Scientist (4)
รหัสประจำตัว 323-4-0028

Approved by

Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว 323-4-0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24110502
Date Received Oct 08, 2024
Date Reported Oct 15, 2024
Report Number 3137379-1

Sample Number 24110502-1
Sampled Date Oct 08, 2024 2 53 PM
Sample Description Wastewater
Contract ID L_ESIE_083_2550 Plot S-31E Site Logistics Advance (Thailand) Co., Ltd.
Location Head Office
Date Analysis Commenced Oct 08, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Fluoride	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.2	≤45	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	316	≤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	43	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nararat Thammavann รหัสประจำตัว 323-4-0052 , Katsurabai Katsuravann รหัสประจำตัว 324-4-0001

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

Approved by

Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว 323-4-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24110509
Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number : 3121997-1

Sample Number : 24110509-1
Sampled Date : Oct 10, 2024 9:55 AM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2562 Plot PY 12.12A Site EVER BRIGHT INDUSTRIAL CO. LTD
Date Analysis Commenced : Oct 10, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid, and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 D	Rayong
Temperature	Degree C			29.3	≤45	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			428	≤3600	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			22	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong วิไลสุวณัฐ 3-323-3-0022, Samart Khumphice วิไลสุวณัฐ 3-204-3-0084

Remarks :
LOD : Limit of Detection
"≤" : Lower than LOQ (Limit of Quantitation) / LOD (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 : Photchanha S.
Photchanha Sreeda
Scientist (V)
วิไลสุวณัฐ 3-323-3-0025

Approved by : Dej Changchon
Dej Changchon
Senior Manager
วิไลสุวณัฐ 3-223-3-0001

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110509
Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number : 3121997-2

Sample Number : 24110509-1
Sampled Date : Oct 10, 2024 9:55 AM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2562 Plot PY 12.12A Site EVER BRIGHT INDUSTRIAL CO. LTD
Date Analysis Commenced : Oct 11, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid, and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management : Sawitree N.
Sawitree Nongrangam
Manager
วิไลสุวณัฐ 3-204-3-0007

Approved by : Karokorn Anik
Karokorn Anik
Assistant General Manager
วิไลสุวณัฐ 3-204-3-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110509
Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number : 3121997-2

Sample Number : 24110509-1
Sampled Date : Oct 10, 2024 9:55 AM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2562 Plot PY 12.12A Site EVER BRIGHT INDUSTRIAL CO. LTD
Date Analysis Commenced : Oct 11, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid, and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong วิไลสุวณัฐ 3-323-3-0022, Samart Khumphice วิไลสุวณัฐ 3-204-3-0084

Remarks :
LOD : Limit of Detection
"≤" : Lower than LOQ (Limit of Quantitation) / LOD (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 : Sawitree N.
Sawitree Nongrangam
Manager
วิไลสุวณัฐ 3-204-3-0007

Approved by : Karokorn Anik
Karokorn Anik
Assistant General Manager
วิไลสุวณัฐ 3-204-3-0004

ADDRESS: 112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong Thailand 21140
TEL: 09-0000-0000 FAX: 09-0000-0000
E-MAIL: info@alsglobal.com
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24110509
Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number : 3121997-3

Sample Number : 24110509-1
Sampled Date : Oct 10, 2024 9:55 AM
Sample Description : Wastewater
Contract ID : L_ESIE_001_2562 Plot PY 12.12A Site EVER BRIGHT INDUSTRIAL CO. LTD
Date Analysis Commenced : Oct 11, 2024
Condition of Sample : Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment -
preservation standards (APHA / USEPA)
Physical Property : Yellow, a lot of odour, solid, and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.65	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Ekachai Tuntong วิไลสุวณัฐ 3-323-3-0022, Samart Khumphice วิไลสุวณัฐ 3-204-3-0084

Remarks :
LOD : Limit of Detection
"≤" : Lower than LOQ (Limit of Quantitation) / LOD (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 : Sawitree N.
Sawitree Nongrangam
Manager
วิไลสุวณัฐ 3-204-3-0007

Approved by : Karokorn Anik
Karokorn Anik
Assistant General Manager
วิไลสุวณัฐ 3-204-3-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING

No 0042
Lot ID: 24121524
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149862-1

Page 1 of 2

Sample Number	24121524-1
Sampled Date	Nov 01, 2024 3:15 PM
Sample Description	Wastewater
Contract ID	L_ESTIE_009_2556 Plot F-13 Site NEX COATING LTD
Date Analysis Commenced	Nov 01, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	31.4	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210.5, part 5200 - O G	Rayong
COD	mg/L	1.5	25	57	≤750	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	29	≤600	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	28	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4500 CH (C, E)	Rayong
Formaldehyde	mg/L	0.01	0.1	Not Detected	≤1	Wastewater analysis manual Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.
Photchanas Seeds
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

D. Chongchon
Dij Chongchon
Senior Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING

No 0042
Lot ID: 24121524
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149862-1

Page 2 of 2

Sample Number	24121524-1
Sampled Date	Nov 01, 2024 3:15 PM
Sample Description	Wastewater
Contract ID	L_ESTIE_009_2556 Plot F-13 Site NEX COATING LTD
Date Analysis Commenced	Nov 01, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.06	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 1550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	216	≤2000	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	17	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanyoo Chomphakke wibudwan 3-323-4-0020, Samart Khumphee wibudwan 3-323-4-0084

Remark :

LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method : value 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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Photchanas Seeds
Scientist (4)
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Approved by

D. Chongchon
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING

No 0009
Lot ID: 24121524
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149862-2

Page 1 of 2

Sample Number	24121524-1
Sampled Date	Nov 01, 2024 3:15 PM
Sample Description	Wastewater
Contract ID	L_ESTIE_009_2556 Plot F-13 Site NEX COATING LTD
Date Analysis Commenced	Nov 05, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0007	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Boron	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0001	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3500 G B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0010	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagorn Inthorn
Section Head
โทรศัพท์ 3-204-4-0058

Approved by

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Kanokkorn Anek
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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING

No 0009
Lot ID: 24121524
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149862-2

Page 2 of 2

Sample Number	24121524-1
Sampled Date	Nov 01, 2024 3:15 PM
Sample Description	Wastewater
Contract ID	L_ESTIE_009_2556 Plot F-13 Site NEX COATING LTD
Date Analysis Commenced	Nov 05, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment -
Physical Property	Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.22	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanyoo Chomphakke wibudwan 3-323-4-0020, Samart Khumphee wibudwan 3-323-4-0084

Remark :

LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytical method : value 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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Approved by

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121524
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314962-3

Page 1 of 1

Sample Number	24121524-1						
Sampled Date	Nov 01, 2024 3 15 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_009_2556		Plot	F-13	Site	NEX COATING LTD	
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment – preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.14	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanmyoo Chomphabae, Samart Khumplhiee

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

Approved by

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 24121525
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314965-1

Page 1 of 2

Sample Number	24121525-1						
Sampled Date	Nov 01, 2024 3 10 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_030_2556		Plot	F-15	Site	NEX COATING LTD	
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
SOD (5 days at 20 Degree C)	mg/L	-	2.0	101	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - D G	Rayong
COD	mg/L	1.5	25	170	≤750	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	62	≤600	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	61	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *				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

Technical Management

Photchana S.
Photchana Seeds
Scientist (A)
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Approved by

Dej Chongchon
Senior Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121525
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314966-2

Page 1 of 2

Sample Number	24121525-1						
Sampled Date	Nov 01, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_030_2556 Plot F-15 Site NEX COATING LTD						
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0001	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500 B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagorn Limchon
Section Head
โทรศัพท์ 3-323-4-0009

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-4-0004

Results apply to the services as submitted. How the sampling was conducted is ALS' responsibility. No part of this report may be reproduced or any form without written consent from the laboratory. All Laboratory Group (Thailand) sample submissions that this report is not distributed except as filed.

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 24121525
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314965-1

Page 2 of 1

Sample Number	24121525-1							Page 2 of 2
Sampled Date	Nov 01, 2024 3:10 PM							
Sample Description	Wastewater							
Contract ID	L_ESTIE_030_2556 Plot F-15 Site NEX COATING LTD							
Date Analysis Commenced	Nov 01, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of colour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.05	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5510 D	Rayong	
Temperature °	Degree C	-	-	29.5	≤45	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	228	≤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	32	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanmyoo Chomphabae, Wanmyoo Chomphabae, Samart Khumplhiee โทรศัพท์ 3-323-4-0020, Samart Khumplhiee โทรศัพท์ 3-204-4-0084

Remarks:
LOD : Limit of Detection
"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytes marked "N" were 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

Photchana S.
Photchana Seeds
Scientist (A)
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Approved by

Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tamol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 24121525
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314965-2

Sample Number	24121525-1						Page 1 of 1
Sampled Date	Nov 01, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_030_2556	Plot	F-15	Site	NEX COATING LTD		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 3125 & 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 3125 & 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 3125 & 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.29	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 3125 & 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanayoo Chumphae m(Gov) 3123-a-0020, Smart Khumphae m(Gov) 3124-a-0084

Report :
LOD : Limit of Detection
"nd" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : Aqueous 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

Chanatt L.
Chanattam Jindom
Section Head
m(Gov) 3124-a-0006

Approved by

Kanokorn Anuk
Kanokorn Anuk
Assistant General Manager
m(Gov) 3124-a-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tamol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042

Lot ID: 24121526
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149867-1

Sample Number	24121526-1					Page 1 of 2	
Sampled Date	Nov 01, 2024 3:30 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_033_2556	Plot	F-16	Site	MSX International Company Limited		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	69.0	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 5110 & 5120	Rayong
COD	mg/L	15	25	109	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 5210 D	Rayong
Color (as Original pH)	ADME	-	5	48	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 5120 F	Rayong
Color (at pH 7.0)	ADME	-	5	45	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 5120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 4550-D (C E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 5510 B	Rayong
pH (on site) *		-	-	7.8	5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 4500 - H (B)	Rayong

Technical Management

Photchan S.
Photchan S.
Scientist (4)
m(Gov) 3123-a-0002

Approved by

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Dej Changnon
Senior Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tamol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009

Lot ID: 24121525
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314965-3

Sample Number	24121525-1						Page 1 of 1
Sampled Date	Nov 01, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_030_2556		Plot	F-15	Site	NEX COATING LTD	
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.45	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 3125 & 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2012, part 4500 F (B)	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.							
Sampling By : Wanunyo Chumphae / Smart Khamphue							
Remark							
100 : Limit of Detection							
* : Lower than 102 (µm of Quantification) / LOD (Limit of Reporting)							
Analysis : method * is not included in scope of Accreditation ISO 17025							
The laboratory has been recognised as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanayoo Chumphae m(Gov) 3123-a-0020, Smart Khumphae m(Gov) 3124-a-0084

Report :
LOD : Limit of Detection
"nd" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : Aqueous not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by

Chanatt L.
Chanattam Jindom
Section Head

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tamol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042

Lot ID: 24121526
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149867-1

Sample Number	24121526-1						Page 2 of 2
Sampled Date	Nov 01, 2024 3:30 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_033_2556		Plot F-16		Site	MSX International Company Limited	
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.07	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.4	≤45	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	264	≤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	14	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Guideline: Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By: Waanyong Chumkietke (มรณวัฒน์) : 3123-40020, Samart Khumkietke (มรณวัฒน์) : 204-40084							
Remark:							
LOD : Limit of Detection *LOQ : Lower limit (LOQ Limit of Quantitation) / LOQ (Limit of Reporting) Apexfield Instrument * Apex not included in scope of Accreditation ISO15189 : 2015 The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanayoo Chumphae m(Gov) 3123-a-0020, Smart Khumphae m(Gov) 3124-a-0084

Report :
LOD : Limit of Detection
"nd" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : Aqueous 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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Photchan S.
Scientist (4)
m(Gov) 3123-a-0002

Approved by

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Dej Changnon
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24121526
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149667-2

Sample Number	24121526-1						
Sampled Date	Nov 01, 2024 3:30 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_033_2556	Plot	F-16	Site	MSX International Company Limited		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Bismuth	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

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Approved by

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Assistant General Manager
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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24121526
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149667-2

Sample Number	24121526-1						
Sampled Date	Nov 01, 2024 3:30 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_033_2556		Plot	F-16	Site	MSX International Company Limited	
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solids and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.54	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 028/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Watanayoo Chumphae, michelle@als.com 3123-0020, Samart Khumphae, michelle@als.com 3123-0084

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * : 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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Approved by

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0009
Lot ID: 24121526
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149667-3

Sample Number	24121526-1						
Sampled Date	Nov 01, 2024 3:30 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_033_2556	Plot	F-16	Site	MSX International Company Limited		
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.23	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.05	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (C)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estate.

Sampling Site: Watanayoo Chinsabhaee , Smart Khumhlhee

Remark

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- Amyl(α) methyl * is not included in scope of Accreditation ISO/IEC 17025
- The Laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025

Guideline : Notification of the Industrial Estate Authority of Thailand No 028/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Watanayoo Chumphae, michelle@als.com 3123-0020, Samart Khumphae, michelle@als.com 3123-0084

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

Approved by

Charatt L.
Charattagorn Trichom
Section Head



Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No.0042
Lot ID: 24121527
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149668-1

Sample Number	24121527-1							Page 1 of 2
Sampled Date	Nov 01, 2024 9:38 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_168_2550	Plot	E-21	Site	Kobelco Construction Machinery Southeast Asia Co., Ltd.			
Date Analysis Commenced	Nov 01, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of colour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
HOT (5 days at 20 Degree C)	mg/L	-	2.0	1.76	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 OD	Rayong	
COD	mg/L	1.5	25	305	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong	
Color (as Original pH)	ADMI	-	5	155	≤600	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	151	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C)	Rayong	
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis - Annual Environmental Engineering Association of Thailand (4th ed. 2004)	Rayong	
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong	
pH (on site) *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-ri (B)	Rayong	

Technical Management

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Approved by

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Senior Manager
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Analysis / Test Report

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24121527
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149868-1

Sample Number	24121527-1							Page 2 of 2
Sampled Date	Nov 01, 2024 9:58 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_168_2550	Plot	E-21	Site	Kobeko Construction Machinery Southeast Asia Co., Ltd			
Date Analysis Commenced	Nov 05, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.19	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong	
Temperature	Degree C			31.3	≤45	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	376	≤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	96	≤700	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong	

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wanunyo Chumphalee รหัสประจำตัว 323-4-0020, Samart Khumplinee รหัสประจำตัว 3204-4-0084

Remark:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * value 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

Photchanas S.

Photchanas Seeda
Scientist (S)
รหัสประจำตัว 3-203-4-0008

Approved by

D. Chongchon

D. Chongchon
Senior Manager
รหัสประจำตัว 3-203-4-0001

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Analysis / Test Report

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121527
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149868-2

Sample Number	24121527-1							Page 5 of 5
Sampled Date	Nov 01, 2024 9:58 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_168_2550	Plot	E-21	Site	Kobicez Construction Machinery Southeast Asia Co., Ltd			
Date Analysis Commenced	Nov 05, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservative standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Hexavalent Chromium	mg/L	0.001	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500 G B	Bangkok	
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Manganese	mg/L	0.0003	0.0005	0.13	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	

Technical Management

Chanatt L.

Chanattam Imchom
Section Head
รหัสประจำตัว 3-204-4-0006

Approved by

Kanokorn A.

Kanokorn Aek
Assistant General Manager
รหัสประจำตัว 3-204-4-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121527
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149868-2

Sample Number	24121527-1							Page 2 of 2
Sampled Date	Nov 01, 2024 9:58 AM							
Sample Description	Wastewater							
Contract ID	L_ESIE_168_2550		Plot	E-21	Site	Kobeko Construction Machinery Southeast Asia Co., Ltd		
Date Analysis Commenced	Nov 05, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	—	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3115 B, 3030 F	Bangkok	

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wanunyo Chumphalee รหัสประจำตัว 323-4-0020, Samart Khumplinee รหัสประจำตัว 3204-4-0084

Remark:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * value 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

Chanatt L.

Chanattam Imchom
Section Head
รหัสประจำตัว 3-204-4-0006

Approved by

Kanokorn A.

Kanokorn Aek
Assistant General Manager
รหัสประจำตัว 3-204-4-0004

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121527
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149868-3

Sample Number	24121527-1						
Sampled Date	Nov 01, 2024 9:58 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_168_2550	Plot	E-21	Site	Kobeko Construction Machinery Southeast Asia Co., Ltd		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.55	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (2)	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into Central wastewater treatment systems in Industrial Estates.							
Sampling By : Waiyutay Ompheehae , Smart Khumplee							
Remarks : LOD : Limit of Detection "x" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting) Analyte(s) marked * where not included in scope of Accreditation ISO/IEC 17025 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							

Guideline: Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Wanunyo Chumphalee รหัสประจำตัว 323-4-0020, Samart Khumplinee รหัสประจำตัว 3204-4-0084

Remark:
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analyte(s) marked * value 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

Chanatt L.

Chanattam Imchom
Section Head
รหัสประจำตัว 3-204-4-0006

Approved by

Chanatt L.

Chanattam Imchom
Section Head
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TESTING

Lot ID: 24121528
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149870-1

Page 1 of 2

Sample Number	24121528-1			
Sampled Date	Nov 01, 2024 9:28 AM			
Sample Description	Wastewater			
Contract ID	L_ESSE_199_2550	Plot	E-26.27	Site Yokohama Rubber (Thailand) Co.,Ltd
Date Analysis Commenced	Nov 01, 2024			
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pre-treatment - preservation standards (APHA / USEPA)			
Physical Property	Yellow, a lot of odour, solid and turbid			

[illegible]

Approved by _____

Dej Changchon
Senior Manager
โทรศัพท์ ๓-323 ๓ 0

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TESTING

Lot ID: 24121528
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3141870-2

Page 1 of 2

Sample Number	24121529.1				
Sampled Date	Nov 01, 2024 9:13 AM				
Sample Description	Wastewater				
Contract ID	U-ESIE_199_2520	Plot	E-26.17	Site	Yokohama Rubber (Thailand) Co., Ltd
Date Analysis Commenced	Nov 06, 2024				
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment preservation standards (APHA / USEPA)				
Physical Property	Yellow, a lot of occur, solid and turbid				

[illegible]

Approved by _____

Kanokkorn Anek
Assistant General Manager
02-274-6171

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 24121528
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3147870-1

Sample Number	241215-1					Page 1 of 1	
Sampled Date	Nov 01, 2024 9:18 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE-199-2557 Plot E 25-27		Site		Yokohama Rubber (Thailand) Co.,Ltd		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.35	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3050 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.08	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanumyo Chimpalee มินอุมโย ชิมป์เล่ย์ Samart Khumplee สมาร์ท ขุหมุ่พลี

Remark :
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"C" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
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Approved by

Charatt L.
Charattam Indom
Section Head

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 24121529
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149671-1

Sample Number	24121529-1							Page 2 of 2
Sampled Date	Nov 01, 2024 2:15 PM							
Sample Description	Wastewater							
Contract ID	L-ESIE-007-2557 Plot K14-A09 Site DELHI TECHNO COMPANY LIMITED							
Date Analysis Commenced	Nov 01, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standard (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
Phenol	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong	
Temperature *	Degree C			30.1	≤45	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	260	≤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	32	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong	

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanumyo Chimpalee มินอุมโย ชิมป์เล่ย์ Samart Khumplee สมาร์ท ขุหมุ่พลี

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

Technical Management

Photchanas S.
Photchanas S.
Scientist (d)
มินอุมโย ชิมป์เล่ย์ 3-323-0002

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 24121529
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149871-1

Sample Number	24121529-1							Page 1 of 2
Sampled Date	Nov. 01, 2024 2:26 PM							
Sample Description	Wastewater							
Contract ID	L-ESIE-007_2557 Plot K14-A09 Site DELHI TECHNO COMPANY LIMITED							
Date Analysis Commenced	Nov. 01, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, some solid and turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	116	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 C/G	Rayong	
COD	mg/L	1.5	25	191	≤750	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	74	≤600	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	72	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong	
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CH (C)	Rayong	
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong	
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong	
pH (on site) *	-	-	-	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	

Technical Management

Photchanas S.
Photchanas S.
Scientist (d)
มินอุมโย ชิมป์เล่ย์ 3-323-0002

Approved by

Dej Chongchon
Dej Chongchon
Senior Manager
มินอุมโย ชิมป์เล่ย์ 3-323-0001

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Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE



TESTING

Lot ID: 24121529
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149871-2

Sample Number	24121529-1						Page 1 of 2
Sampled Date	Nov 01, 2024 2:26 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE-007-2557 Plot K14-A09 Site DELHI TECHNO COMPANY LIMITED						
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Inductium Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500 G B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree N.
Manager
มินอุมโย ชิมป์เล่ย์ 3-323-0007

Approved by

Kanokam Anek
Kanokam Anek
Assistant General Manager
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Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phuaikdaeng, Amphur Phuaikdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING

No 0009
Lot ID: 24121529
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149871-2

Page 2 of 2

Sample Number	24121529-1						
Sampled Date	Nov 01, 2024 2:26 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_007_2557	Plot	K14 A09	Site	DELHI TECHNO COMPANY LIMITED		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3114	Rayong
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3115 B, 3030 F	Rayong
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3115 B, 3030 F	Rayong
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3115 B, 3030 F	Rayong
Zinc	mg/L	0.003	0.005	0.29	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3115 B, 3030 F	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunyo Chumphalee วิสุตนิเทศน์ 3-323-0020, Samart Khumphee วิสุตนิเทศน์ 3-204-0084

Remark :
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* : Lower than LOQ (Limit of Quantization) / LOR (Limit of Reporting)
Analyte(s) marked * were 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

Savitree N.

Savitree Naisriyatham
Manager
วิสุตนิเทศน์ 3-204-0007

Approved by

Kankom Anet

Kankom Anet
Assistant General Manager
วิสุตนิเทศน์ 3-204-0004

Consent to publish this report is given by the client. The client is responsible for the accuracy of the data and the validity of the results. The client is responsible for the accuracy of the data and the validity of the results.

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phuaikdaeng, Amphur Phuaikdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING

No 0042
Lot ID: 24121530
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149872-1

Page 1 of 2

Sample Number	24121530-1						
Sampled Date	Nov 01, 2024 2:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2562	Plot	K14 A01	Site	HARVEST PRECISION COMPANY LIMITED		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	158	≤500	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	232	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (as Original ppt)	ADMI	-	5	126	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
Color (at pH 7.0)	ADMI	-	5	124	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 C (C, F)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Photchanha S.

Photchanha Seeda
Scientist (A)
วิสุตนิเทศน์ 3-323-0028

Approved by

Dej Changtham

Dej Changtham
Senior Manager
วิสุตนิเทศน์ 3-323-0001

Consent to publish this report is given by the client. The client is responsible for the accuracy of the data and the validity of the results. The client is responsible for the accuracy of the data and the validity of the results.

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phuaikdaeng, Amphur Phuaikdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE



TESTING

No 0009
Lot ID: 24121529
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149871-3

Page 1 of 2

Sample Number	24121529-1						
Sampled Date	Nov 01, 2024 2:56 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_007_2557	Plot	K14 A09	Site	DELHI TECHNO COMPANY LIMITED		
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.31	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3115 B, 3030 F	Rayong
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (C)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunyo Chumphalee วิสุตนิเทศน์ 3-323-0020, Samart Khumphee วิสุตนิเทศน์ 3-204-0084

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantization) / LOR (Limit of Reporting)
Analyte(s) marked * were 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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Savitree Naisriyatham
Manager

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112 Moo 4, Highway 331 Road, Tambol Phuaikdaeng, Amphur Phuaikdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING

No 0042
Lot ID: 24121530
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149872-1

Page 2 of 2

Sample Number	24121530-1						
Sampled Date	Nov 01, 2024 2:10 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_010_2562	Plot	K14 A01	Site	HARVEST PRECISION COMPANY LIMITED		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.18	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 A	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	352	≤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	35	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunyo Chumphalee วิสุตนิเทศน์ 3-323-0020, Samart Khumphee วิสุตนิเทศน์ 3-204-0084

Remark :
LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantization) / LOR (Limit of Reporting)
Analyte(s) marked * were 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

Photchanha S.

Photchanha Seeda
Scientist (A)
วิสุตนิเทศน์ 3-323-0028

Approved by

Dej Changtham

Dej Changtham
Senior Manager
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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121530
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number 3149872.2

Page 1 of 2

Sample Number 24121530-1
Sampled Date Nov 01, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_ESIE_010_2562 Plot K14_A01 Site HARVEST PRECISION COMPANY LIMITED
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3050 D-8	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsang
Manager
m01000001-2024-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
m01000001-2024-0004

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121530
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number 3149872.2

Page 1 of 2

Sample Number 24121530-1
Sampled Date Nov 01, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_ESIE_010_2562 Plot K14_A01 Site HARVEST PRECISION COMPANY LIMITED
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.41	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanayoo Chiraphatke m01000001-323-0020, Samart Khumphae m01000001-2024-0004

Remark :

LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : 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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Savitree Nongsang
Manager
m01000001-2024-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
m01000001-2024-0004

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121530
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number 3149872.3

Page 1 of 2

Sample Number 24121530-1
Sampled Date Nov 01, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_ESIE_010_2562 Plot K14_A01 Site HARVEST PRECISION COMPANY LIMITED
Date Analysis Commenced Nov 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.45	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (2)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanayoo Chiraphatke m01000001-323-0020, Samart Khumphae

Remark :

LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
Analytical method : Not included in scope of Accreditation ISO/IEC 17025
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved by

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Savitree Nongsang
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24121531
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number 3149874.1

Page 1 of 2

Sample Number 24121531-1
Sampled Date Nov 01, 2024 3:20 PM
Sample Description Wastewater
Contract ID L_ESIE_014_2563 Plot F-18 Site Alpha Auto Co., Ltd
Date Analysis Commenced Nov 01, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	61.0	≤500	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	124	≤750	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	50	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5510 F	Rayong
Color (at pH 7.0)	ADMI	-	5	48	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5510 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 D-1 (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed, 2004	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (B)	Rayong

Technical Management

Photchanas S.
Photchanas Suda
Scientist (4)
m01000001-323-0025

Approved by

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0042
Lot ID: 24121536
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314940-1-1

Page 1 of 2

Sample Number 24121536-1
Sampled Date Nov 01, 2024 3:00 PM
Sample Description Wastewater
Contract ID L-ESIE-017-2565 Plot F-24 Site Northern Electric Power Technology (Thailand) Co., Ltd
Date Analysis Commenced Nov 01, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	31.9	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 5500 C-G	Rayong
COD	mg/L	1.5	25	60	≤750	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	59	≤600	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	56	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as MCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 1500 CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2021	Rayong
Oil & Grease	mg/L			<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *				8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchan S.

Photchan Suda
Scientist (4)
มือถือ 09-323 4 0029

Approved by

D. Chongchon

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Analysis / Test Report

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Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0009
Lot ID: 24121536
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314940-1-2

Page 1 of 2

Sample Number 24121536-1
Sampled Date Nov 01, 2024 3:00 PM
Sample Description Wastewater
Contract ID L-ESIE-017-2565 Plot F-24 Site Northern Electric Power Technology (Thailand) Co., Ltd
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.001	0.01	<0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.

Chanattagam Inthorn
Section Head
มือถือ 09-323 4 0005

Approved by

Karnkorn Anek

Karnkorn Anek
Assistant General Manager
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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0042
Lot ID: 24121536
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314940-1-1

Page 2 of 2

Sample Number 24121536-1
Sampled Date Nov 01, 2024 3:00 PM
Sample Description Wastewater
Contract ID L-ESIE-017-2565 Plot F-24 Site Northern Electric Power Technology (Thailand) Co., Ltd
Date Analysis Commenced Nov 01, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.04	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C			32.3	≤15	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			352	≤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			11	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanryoo Chumphae มือถือ 09-323 4 0020, Samart Khumplee มือถือ 09-323 4 0064

Remark :

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

Technical Management

Photchan S.

Photchan Suda
Scientist (4)
มือถือ 09-323 4 0029

Approved by

D. Chongchon

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Senior Manager
มือถือ 09-323 4 0001

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Analysis / Test Report

Client Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140
P/O :
Project Name Random Check
Project Location ESIE



TESTING
No 0009
Lot ID: 24121536
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 314940-1-2

Page 2 of 2

Sample Number 24121536-1
Sampled Date Nov 01, 2024 3:00 PM
Sample Description Wastewater
Contract ID L-ESIE-017-2565 Plot F-24 Site Northern Electric Power Technology (Thailand) Co., Ltd
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.46	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanryoo Chumphae มือถือ 09-323 4 0020, Samart Khumplee มือถือ 09-323 4 0064

Remark :

LOD : Limit of Detection
* : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
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Technical Management

Chanatt L.

Chanattagam Inthorn
Section Head
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Approved by

Karnkorn Anek

Karnkorn Anek
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121536
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149881-3

Page 1 of 2

Sample Number : 24121536-1
Sampled Date : Nov 01, 2024 3:00 PM
Sample Description : Wastewater
Contract ID : L_ESIE_023_2565 Plot : F-24 Site : Northern Electric Power Technology (Thailand) Co. Ltd
Date Analysis Commenced : Nov 02, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, AWWA, USEPA)
Physical Property : Yellow, some odor, solid and turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.24	≤10.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4520 F (C)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Waiyoo Chomphae , Samet Khumphae

Remark :
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Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 24121537
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149882-1

Page 1 of 2

Sample Number : 24121537-1
Sampled Date : Nov 01, 2024 1:42 PM
Sample Description : Wastewater
Contract ID : L_ESIE_023_2565 Plot : F-10 Site : ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO., LTD
Date Analysis Commenced : Nov 01, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, AWWA, USEPA)
Physical Property : Yellow, a lot of odor, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L		2.0	53.7	≤500	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 C	Rayong
COD	mg/L	1.5	25	101	≤750	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
Color (at Original pH)	APHA	-	5	53	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
Color (at pH 7.0)	APHA	-	5	52	≤600	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, F)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
Oil & Grease	mg/L	-	1	1	≤10	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5210 F	Rayong
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 4500 (B)	Rayong

Technical Management

Photchan S.
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Scientist (4)
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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 24121537
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149882-1

Page 2 of 2

Sample Number : 24121537-1
Sampled Date : Nov 01, 2024 1:42 PM
Sample Description : Wastewater
Contract ID : L_ESIE_023_2565 Plot : F-10 Site : ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO., LTD
Date Analysis Commenced : Nov 01, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, AWWA, USEPA)
Physical Property : Yellow, a lot of odor, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Phenol	mg/L	0.005	0.01	0.13	≤1	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.0	≤45	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	432	≤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	21	≤200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Waiyoo Chomphae โทรศัพท์ 0-223-4-0020, Samet Khumphae โทรศัพท์ 0-204-4-0004

Remark :
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"C" : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
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Approved by

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Technical Management

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121537
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149882-2

Page 1 of 2

Sample Number : 24121537-1
Sampled Date : Nov 01, 2024 1:42 PM
Sample Description : Wastewater
Contract ID : L_ESIE_023_2565 Plot : F-10 Site : ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO., LTD
Date Analysis Commenced : Nov 05, 2024
Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, AWWA, USEPA)
Physical Property : Yellow, a lot of odor, solid and some turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0009	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0002	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3500-C-B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Sauwath N.
Sauwath N.
Senior Manager
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Approved by

Kanokkiet Anek
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24121537
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149882-2

Page 1 of 2

Sample Number	24121537-1							Page 1 of 1
Sampled Date	Nov 01, 2024 1:42 PM							
Sample Description	Wastewater							
Contract ID	L_ESIE_023_2565	Plot	F 10	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO., LTD			
Date Analysis Commenced	Nov 02, 2024							
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, a lot of odour, solid and some turbid							
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location	
Metals Testing								
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok	
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	
Zinc	mg/L	0.003	0.005	0.57	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok	

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanuyoo Chomphakhe มินิอุยวู 3-323-0-0020, Samart Khumthoie มินิอุยวู 3-204-0-0084

Remark :
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Technical Management

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Savitree Niamsriem
Manager
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Approved by

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P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0009
Lot ID: 24121537
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149882-3

Page 1 of 2

Sample Number	24121517-1						
Sampled Date	Nov 01, 2024 1:42 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_023_2565	Plot	F-10	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO. LTD		
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.47	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 4500-F (C)	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By: Winnyong Chimpahakee Saratt Khamphibhe							
Remark :							
LOD : Limit of Detection							
F : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)							
* not/less marked : value not included in scope of Accreditation ISO17025							
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Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanuyoo Chomphakhe มินิอุยวู 3-323-0-0020, Samart Khumthoie มินิอุยวู 3-204-0-0084

Remark :
* LOD : Limit of Detection
* < : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
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Approved by

Chanatt L.
Chanattagorn Indrom
Section Head

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24121538
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149884-1

Page 1 of 2

Sample Number	24121538-1						
Sampled Date	Nov 01, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_024_2565	Plot	F-12	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO., LTD		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	150	≤500	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	222	≤750	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	138	≤600	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	135	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (B)	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 H (B)	Rayong

Technical Management

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24121538
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149884-1

Page 2 of 2

Sample Number	24121538-1						
Sampled Date	Nov 01, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESIE_024_2565	Plot	F-12	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO. LTD		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.21	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature*	Degree C	-	-	30.5	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	336	≤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	46	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong
Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates							
Sampling By : Wanying Chenภญะกมลวรรณ น. 323-9-0020 , Samart Khumphet ภญะกมล น. 704-9-0684							
Remark							
LOD : Limit of Detection							
*"-": Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)							
Analyte(s) marked * are not included in scope of Accreditation on ISO/IEC 17025							
The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025							

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanuyoo Chomphakhe มินิอุยวู 3-323-0-0020, Samart Khumthoie มินิอุยวู 3-204-0-0084

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

Approved by

Dej Changchon
Senior Manager
โทรสาร 3-323-0-0001

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ALS Laboratory Group : Report of this information that the report is not signed and sealed by ALS

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121538
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149684-2

Page 1 of 2

Sample Number	24121538-1						
Sampled Date	Nov 01, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_024_2565	Plot	F-12	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO. LTD		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nongsangam
Manager
โทรศัพท์ : 0-204-4-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121538
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149684-2

Page 2 of 2

Sample Number	24121538-1						
Sampled Date	Nov 01, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_024_2565	Plot	F-12	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO. LTD		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of color, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112 F	Bangkok
Nickel	mg/L	0.0003	0.0005	0.066	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.59	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates. Sampling By : Wanyoo Chomphaeve โทรศัพท์ : 02-04-40020, Samart Khumplee โทรศัพท์ : 02-04-40084							
Remark : *LOD : Limit of Detection * * : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting) Analyte(s) marked * were 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

Savitree N.
Savitree Nongsangam
Manager
โทรศัพท์ : 0-204-4-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121538
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149684-3

Page 1 of 3

Sample Number	24121538-1						
Sampled Date	Nov 01, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_024_2565	Plot	F-12	Site	ORICS ELECTRICAL TECHNOLOGY (THAILAND) CO. LTD		
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.56	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanyoo Chomphaeve, Samart Khumplee

Remarks :
* LOD : Limit of Detection
* * : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyte(s) marked * were not included in scope of Accreditation ISO/IEC 17025
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Approved by

Chanatt S.
Chanattasam Inthom
Section Head

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0042
Lot ID: 24121539
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149685-1

Page 1 of 3

Sample Number	24121539-1						
Sampled Date	Nov 01, 2024 10:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESTIE_167_2550	Plot	E-19.20	Site	Thai Kanai Paint Co. Ltd		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	7.0	≤500	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	42	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADNI	-	5	10	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADNI	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CH (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual Environmental Engineering Association of Thailand, 4th ed. 2024	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 H (B)	Rayong

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
โทรศัพท์ : 0-204-4-0028

Approved by

Dy Chanchon
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TESTING
No 0009
Lot ID: 24121539
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149855-2

Page 3 of 3

Sample Number	24321539-1						
Sampled Date	Nov 01, 2024 10 15 AM						
Sample Description	Wastewater						
Contract ID	L-E5F167_2550	Plot	E-19.20	Site	Thai Kamsak Paint Co., Ltd		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles; sample containers comply to pretreatment - preservation standards (APHA, US EPA)						
Physical Property	Yellow, a lot of colour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.20	≤1.0	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.08	≤2.0	Standard Methods for the	Bangkok

Examination of Water and
Wastewater: APHA, AWWA & WEF,
24th ed., 2023, part 3125 B, 3030
B

Hexavalent Chromium	mg/L	0.0003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr-6	Bangkok
Lead	mg/L	0.0003	0.0005	0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125-B, 3030-F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125-B, 3030-F	Bangkok


Dej Changchorn
Senior Manager
หมายเลข 1-323 ค


 Kanokkorn Aree
 Assistant General Manager
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Analysis / Test Report

Lot ID: 24121539
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149853

Page 1 of 1

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Assistant General Manager
หมายเลข 7-204-8-0004

Chamatt L.
Chenattagam Linchom
Section Head

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24121541
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149490-2

Page 1 of 1

Sample Number	24121541-1						
Sampled Date	Nov 01, 2024 10:44 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_024_2550	Pilot	E-16,17	Site	Bridgestone Metalpla (Thailand) Co., Ltd.		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 3125 B.3030 F	Bangkok
Ardenite	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.63	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunpoo Chumphae วิวัฒน์วณัฐ 323-0-0020, Samart Khumplinee สมมาตร ขุหมุณเฑาะ 323-0-0034

Remark :
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"C" : Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)
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Technical Management

Sawatree N.

Sawatree Nongniam
Manager
วิวัฒน์วณัฐ 323-0-0007

Approved By

Kanokkorn J.

Kanokkorn Jank
Assistant General Manager
วิวัฒน์วณัฐ 323-0-0004

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112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24121542
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149991-1

Page 1 of 2

Sample Number	24121542-1						
Sampled Date	Nov 01, 2024 9:15 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_162_2550	Pilot	E-22	Site	Tha Asakawa Co., Ltd.		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	73.3	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 5210 B	Rayong
COD	mg/L	1.5	25	175	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMU	-	5	39	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 2130 F	Rayong
Color (at pH 7.0)	ADMU	-	5	37	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 2130 F	Rayong
Cyanide as KCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 4520 CH (C)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed. 2004	Rayong
Oil & Grease	mg/L	-	5	5	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 5530 B	Rayong
pH (at 25°C) *	-	-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchan S.

Photchan Seda
Scientist (4)
วิวัฒน์วณัฐ 323-0-0028

Approved By

D. Khumplinee

Dej Chongchon
Senior Manager
วิวัฒน์วณัฐ 323-0-0001

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Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0009
Lot ID: 24121541
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149490-3

Page 1 of 1

Sample Number	24121541-1						
Sampled Date	Nov 01, 2024 10:44 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_024_2550	Pilot	E-16,17	Site	Bridgestone Metalpla (Thailand) Co., Ltd.		
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.30	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.5	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 4500 F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunpoo Chumphae วิวัฒน์วณัฐ 323-0-0020, Samart Khumplinee สมมาตร ขุหมุณเฑาะ 323-0-0034

Remark :
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"C" : Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)
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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Approved By

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Chanattagorn Inthorn
Section Head

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Puakdaeng, Amphur Puakdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESIE

TESTING
No 0042
Lot ID: 24121542
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149991-1

Page 1 of 2

Sample Number	24121542-1						
Sampled Date	Nov 01, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_162_2550	Pilot	E-22	Site	Tha Asakawa Co., Ltd.		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOE)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.04	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 2530 B	Rayong
Total Dissolved Solids Dried at 180 Degree C	mg/L	-	5	428	≤1000	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	55	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Wanunpoo Chumphae วิวัฒน์วณัฐ 323-0-0020, Samart Khumplinee สมมาตร ขุหมุณเฑาะ 323-0-0034

Remark :
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Technical Management

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Photchan Seda
Scientist (4)
วิวัฒน์วณัฐ 323-0-0028

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D. Khumplinee

Dej Chongchon
Senior Manager
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112 Moo 4, Highway 331 Road, Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong
Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121542
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number : 3149691-2

Page 1 of 2

Sample Number	24121542-1						
Sampled Date	Nov 01, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_162_2550	Plot	E 22	Site	Thai Asakawa Co., Ltd		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

Chanatt L.
Chanattagim Limchom
Section Head
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Approved by

Kanokorn Anek
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Assistant General Manager
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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121542
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number : 3149691-2

Page 2 of 2

Sample Number	24121542-1						
Sampled Date	Nov 01, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_162_2550	Plot	E-22	Site	Thai Asakawa Co. Ltd		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	0.09	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	2.01	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanwito Chongphakdee รหัสประจำตัว : 323-9-0020, Samart Khumphee รหัสประจำตัว : 204-9-0084

Remark :
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Technical Management

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Approved by

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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0009
Lot ID: 24121542
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number : 3149691-3

Page 1 of 2

Sample Number	24121542-1						
Sampled Date	Nov 01, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L-ESIE_162_2550	Plot	E-22	Site	Thai Asakawa Co. Ltd		
Date Analysis Commenced	Nov 02, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	2.16	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No 029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanwito Chongphakdee , Samart Khumphee

Remark :
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Approved by

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Thailand 21140

P/O :
Project Name Random Check
Project Location ESIE

TESTING
No 0042
Lot ID: 24121543
Date Received Nov 01, 2024
Date Reported Nov 08, 2024
Report Number : 3149692-1

Page 1 of 2

Sample Number	24121543-1						
Sampled Date	Nov 01, 2024 2:55 PM						
Sample Description	Wastewater						
Contract ID	L-ESIE_008_2566	Plot	F 22	Site	Northern Electronic Power Technology Co., Ltd		
Date Analysis Commenced	Nov 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	20.0	≤500	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	46	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMT	-	5	83	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMT	-	5	82	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analyser manual, Environmental Engineering Association of Thailand, 4th ed 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

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Photchanan Samsa
Section Head
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Approved by

D. Chongchon
Dq Chongchon
Senior Manager
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112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No 0042
Lot ID: 24121543
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149892-1

Page 1 of 2

Sample Number : 24121543-1
Sampled Date : Nov 01, 2024 2:55 PM
Sample Description : Wastewater
Contract ID : L_ESIE_008_2566 Plot : F 22 Site : Northern Electronic Power Technology Co., Ltd
Date Analysis Commenced : Nov 05, 2024

Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment : preservation standards (APHA, USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature	Degree C			31.4	≤45	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			296	≤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			8	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanayoo Chumphaklee รหัสประจำตัว 1-323-4-0020, Samart Khumplhee รหัสประจำตัว 1-204-4-0004

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Photchana Seeda
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Approved by

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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121543
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149892-2

Page 2 of 2

Sample Number : 24121543-1
Sampled Date : Nov 01, 2024 2:55 PM
Sample Description : Wastewater
Contract ID : L_ESIE_008_2566 Plot : F 22 Site : Northern Electronic Power Technology Co., Ltd
Date Analysis Commenced : Nov 05, 2024

Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment : preservation standards (APHA, USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L		0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.26	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanayoo Chumphaklee รหัสประจำตัว 1-323-4-0020, Samart Khumplhee รหัสประจำตัว 1-204-4-0004

Remark :
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Approved by

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Kanokorn Anek
Assistant General Manager
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Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121543
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149892-2

Page 1 of 2

Sample Number : 24121543-1
Sampled Date : Nov 01, 2024 2:55 PM
Sample Description : Wastewater
Contract ID : L_ESIE_008_2566 Plot : F 22 Site : Northern Electronic Power Technology Co., Ltd
Date Analysis Commenced : Nov 05, 2024

Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment : preservation standards (APHA, USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3100-Cr 6	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok

Technical Management

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รหัสประจำตัว 1-204-4-0008

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd
112 Moo 4, Highway 331 Road, Tambol Plaekdaeng, Amphur Plaekdaeng, Rayong
Thailand 21140
P/O :
Project Name : Random Check
Project Location : ESIE



TESTING
No.0009
Lot ID: 24121543
Date Received : Nov 01, 2024
Date Reported : Nov 08, 2024
Report Number : 3149892-3

Page 1 of 1

Sample Number : 24121543-1
Sampled Date : Nov 01, 2024 2:55 PM
Sample Description : Wastewater
Contract ID : L_ESIE_008_2566 Plot : F 22 Site : Northern Electronic Power Technology Co., Ltd
Date Analysis Commenced : Nov 02, 2024

Condition of Sample : Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment : preservation standards (APHA, USEPA)
Physical Property : Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.30	≤10.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3520-F 101	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates
Sampling By : Wanayoo Chumphaklee รหัสประจำตัว 1-323-4-0020, Samart Khumplhee รหัสประจำตัว 1-204-4-0004

Remark :
LOD : Limit of Detection
"L" : Lower than LOQ (Limit of Quantitation) / LOB (Limit of Reporting)
Analytes marked * were 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

Chanatt L.
Chanattagorn Indom
Section Head
รหัสประจำตัว 1-204-4-0008

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
รหัสประจำตัว 1-204-4-0004

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 24121532
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3149875-3

Page 1 of 1

Sample Number	24121532-1						
Sampled Date	Nov 13, 2024 10:50 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_015_2563	Plot	K14A-02	Site	H-Light Lighting (Thailand) Co., Ltd.		
Date Analysis Commenced	Nov 14, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specifications	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.89	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F ⁻	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chomphalee, Samart Khumphlee

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.
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Approved by

Savitree N.
Savitree Noksungam
Manager

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40-54 ENAL

C:\Report\Waste_Water\24121532-1 (5.10PM)



Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 24121533
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3149876-1

Page 1 of 2

Sample Number	24121533-1						
Sampled Date	Nov 13, 2024 10:40 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2563	Plot	K14A-04	Site	H-Light Lighting (Thailand) Co., Ltd.		
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LER)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	93.6	≤500	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	190	≤750	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	61	≤600	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	58	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	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

Technical Management

Chontichak
Chontichak Subongkuch
Scientist (3)
นายฉัตรชัย 3-323-0001

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
นายเดจ 3-323-0001

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

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Analysis / Test Report

TESTING
No 0042

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 24121533
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3149876-1

Page 2 of 2

Sample Number	24121533-1						
Sampled Date	Nov 13, 2024 10:40 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2563	Plot	K14A-04	Site	H-Light Lighting (Thailand) Co.,Ltd.		
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of colour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.08	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.9	≤45	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	220	≤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	63	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chomphalee นายวรุณ 3-323-0020, Samart Khumphlee นายสมร 3-323-0084

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

Technical Management

Chontichak
Chontichak Subongkuch
Scientist (3)
นายฉัตรชัย 3-323-0001

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
นายเดจ 3-323-0001

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Analysis / Test Report

TESTING
No 0009

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location: ESIE

Lot ID: 24121533
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3149876-2

Page 1 of 2

Sample Number	24121533-1						
Sampled Date	Nov 13, 2024 10:40 AM						
Sample Description	Wastewater						
Contract ID	L_ESIE_016_2563	Plot	K14A-04	Site	H-Light Lighting (Thailand) Co., Ltd.		
Date Analysis Commenced	Nov 14, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.11	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Savitree N.
Savitree Noksungam
Manager
นายฉัตรชัย 3-323-0001

Approved by

Korakorn Anek
Korakorn Anek
Assistant General Manager
นายสุเมธ 3-323-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0009
Lot ID: 24121534
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3149879-2

Sample Number 24121534-1
Sampled Date Nov 12, 2024 3:50 PM
Sample Description Wastewater
Contract ID L_ESTIE_026_2563 Plot K.14A.05 Site B.Y.D. LABEL COMPANY LIMITED.
Date Analysis Commenced Nov 13, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Savitree N.
Savitree Nissungum
Manager
โทรศัพท์ ๖-204-๖-0007

Approved by

Korakorn Anok
Korakorn Anok
Assistant General Manager
โทรศัพท์ ๖-204-๖-0004

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Analysis / Test Report

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112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0009
Lot ID: 24121534
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3149879-2

Sample Number 24121534-1
Sampled Date Nov 12, 2024 3:50 PM
Sample Description Wastewater
Contract ID L_ESTIE_026_2563 Plot K.14A.05 Site B.Y.D. LABEL COMPANY LIMITED.
Date Analysis Commenced Nov 13, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.23	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanayoo Chomphakhe : โทรศัพท์ ๖-323-๖-0020, Samart Khumphahee : โทรศัพท์ ๖-204-๖-0084

Remark :
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Technical Management

Savitree N.
Savitree Nissungum
Manager
โทรศัพท์ ๖-204-๖-0007

Approved by

Korakorn Anok
Korakorn Anok
Assistant General Manager
โทรศัพท์ ๖-204-๖-0004

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Analysis / Test Report

Client : Eastern Seaboard Industrial Estate (Rayong) Co., Ltd.
112 Moo 4, Highway 331 Road, Tambol Phukdaeng, Amphur Phukdaeng, Rayong
Thailand 21140

P/O :
Project Name : Random Check
Project Location : ESTE

TESTING
No 0009
Lot ID: 24121534
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3149879-3

Sample Number 24121534-1
Sampled Date Nov 12, 2024 3:50 PM
Sample Description Wastewater
Contract ID L_ESTIE_026_2563 Plot K.14A.05 Site B.Y.D. LABEL COMPANY LIMITED.
Date Analysis Commenced Nov 13, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanayoo Chomphakhe : Samart Khumphahee

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

Approved by

Savitree N.
Savitree Nissungum
Manager

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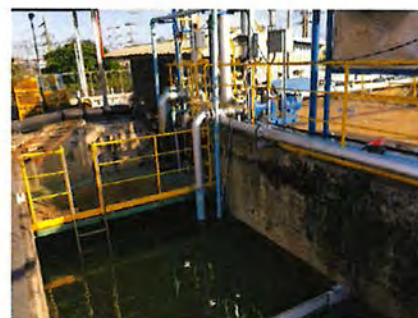
ข้อมูลระบบบำบัดน้ำเสียของโรงงาน

ภาพถ่ายระบบบำบัดน้ำเสีย

1. ระบบบำบัดน้ำเสียแบบชีวภาพ



2. ระบบบำบัดน้ำเสียแบบเคมี





บริษัท ไทยซัมมิท พลาสติก จำกัด
THAI SUMMIT PLASTECH CO., LTD.

สำนักงานใหญ่ : ที่อยู่ 200, 204 หมู่ 3 ต.ทุ่งสุขลา อ.ศรีราชา จ.ชลบุรี 20330

โทร. 038-491-304 แฟกซ์ 038-493-290

สาขา 1 : ที่อยู่ 4/3 หมู่ 1 ถนนบางนา-ตราด กม. 16 ต.บางโกล้ง อ.บางพลี จ.สมุทรปราการ 10540

โทร. 02-325-8000 แฟกซ์ 02-325-8099

สาขา 2 : ที่อยู่ 64/46 หมู่ 4 ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140

โทร. 038-667-999 แฟกซ์ 038-667-900

ระบบบำบัดน้ำเสีย ของ บริษัท ไทยซัมมิท พลาสติก จำกัด (สาขา 2)



บ่อบำบัดน้ำเสีย



Inspection Manhole



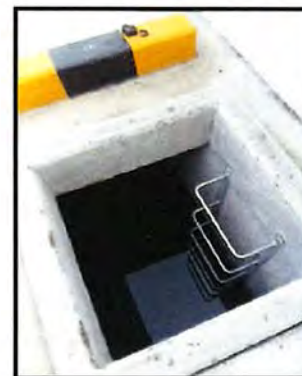
INSPECTION MANHOLE



สำนักงานใหญ่ (Head Office)

64/49 หมู่ 4 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด ต. ปากแดง จ. ระยอง 21140 โทร. : 038-955528-30, 038-959128-140 แฟกซ์ : 038-955531 , 038-959141-2
64/49 Mu 4 Eastern Seaboard Industrial Estate Pluakdang Rayong 21140 Tel. : 038-955528-30, 038-959128-140 Fax : 038-955531 , 038-959141-2

บ่อบำบัดน้ำประปา



สำนักงานใหญ่ (Head Office)

64/49 หมู่ 4 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด ต. ปากแดง จ. ระยอง 21140 โทร. : 038-955528-30, 038-959128-140 แฟกซ์ : 038-955531 , 038-959141-2
64/49 Mu 4 Eastern Seaboard Industrial Estate Pluakdang Rayong 21140 Tel. : 038-955528-30, 038-959128-140 Fax : 038-955531 , 038-959141-2

ระบบบำบัดน้ำเสียแบบเคมี



อัตราการบำบัด 50 ลบ.ม/ชม.

นอกจากนี้ยังมีระบบบำบัดน้ำเสียจากโรงอาหาร (Canteen) เป็นระบบบำบัดแบบชีวภาพ สำหรับบำบัดน้ำเสียจากกิจกรรมการใช้น้ำที่โรงอาหาร เช่น น้ำล้างจาน น้ำล้างวัตถุดิบในการปรุงอาหาร เป็นต้น



สำนักงานใหญ่ (Head Office)

64/49 หมู่ 4 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด ต. ปะทิวคง จ. ระยอง 21140 โทร : 038-955528-30, 038-959128-140 แฟกซ์ : 038-955531 , 038-959141-2
64/49 Mu 4 Eastern Seaboard Industrial Estate Pluakdang Rayong 21140 Tel : 038-955528-30, 038-959128-140 Fax : 038-955531 , 038-959141-2

บ่อบำบัดน้ำสำหรับรองรับน้ำประปาจากเส้นท่อของโครงการ



INSPECTION MANHOLE



รายการภาพถ่าย

1. แบบหรือภาพถ่ายแสดงให้เห็นว่าโรงงานมีบ่อพักน้ำสำหรับรองรับน้ำประปาจากเส้นท่อของโครงการ



2. แบบหรือภาพถ่ายแสดงให้เห็นว่าโรงงานมี Inspection Manhole



ภาพถ่ายบ่อดักน้ำสำหรับรองรับน้ำประปาจากเส้นท่อของโครงการ



ภาพถ่าย Inspection Manhole



ภาพถ่ายแสดงการแยกระบบระบายน้ำเสียออกจากน้ำฝน





เอกสารแนบ รูปภาพบ่อพักน้ำ และ inspection manhole



บ่อพักน้ำสำหรับรองรับน้ำประปาจากการนิคมฯ

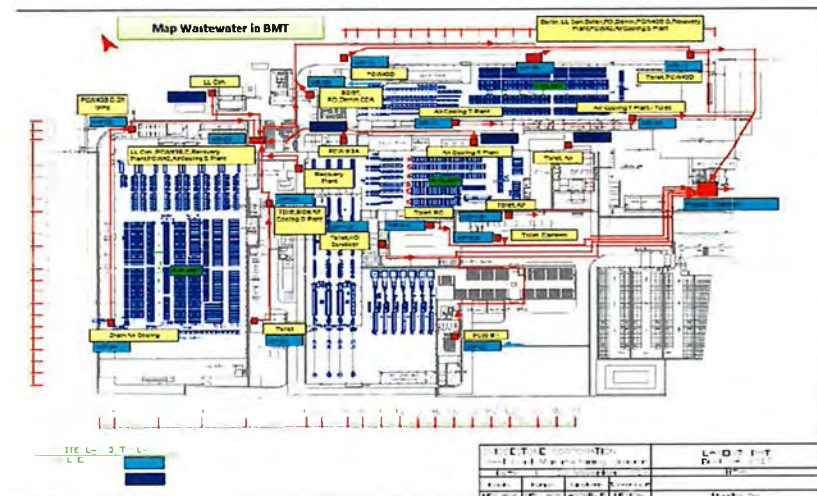


Inspection manhole

เอกสารแนบ รูปภาพระบบระบายน้ำเสียแยกจากระบบระบายน้ำฝน



ระบบระบายน้ำเสีย แยกจากระบบระบายน้ำฝน



แผนผังระบบระบายน้ำเสียในโรงงาน

ภาพถ่ายบ่อพักสำหรับรองรับน้ำประปาจากเส้นท่อของโครงการ



บ่อพักน้ำสำหรับรองรับน้ำประปาจากเส้นท่อของโครงการอยู่บริเวณโรงอาหาร โดยน้ำจะถูกกักเก็บไว้ในบ่อเก็บใต้พื้นที่โรงอาหาร

ภาพถ่าย Inspection Manhole



Inspection Manhole อยู่บริเวณหลังโรงงานที่ 2 เป็นจุดตรวจสอบน้ำเสียที่ปล่อยออกนอกโรงงานไปรวมกับท่อน้ำเสียของการนิคมฯ

ภาพถ่ายแสดงการแยกระบบระบายน้ำเสียออกจากน้ำฝน



รูปที่ 1



รูปที่ 2

รูปที่ 1 แสดงการแยกเส้นท่อระบายน้ำเสียออกจากรางระบายน้ำฝนอย่างชัดเจน

รูปที่ 2 แสดงจุดเชื่อมต่อของน้ำเสียจากท้องน้ำตอกเข้ากับท่อที่ถูกลงไปรวมกับท่อของน้ำเสียของการคมนาคม

เอกสารแนบรายการภาพถ่าย

ลำดับที่ 1. แบบหรือภาพถ่ายแสดงให้เห็นว่าโรงงานมีบ่อพักน้ำสำหรับรองรับน้ำประปาจากแหล่งของโครงการ



ท่อส่งน้ำจากบ่อพักสำหรับใช้โรงงาน

ท่อรับน้ำประปาจากโครงการ

ลำดับที่ 2. แบบหรือภาพถ่ายแสดงว่าโรงงานมี Inspection Manhole



เส้นทางปล่อยน้ำฝน

เส้นทางปล่อยน้ำเสีย

ลำดับที่ 4. แบบหรือภาพถ่ายแสดงการแยกระบบน้ำเสียออกจากน้ำฝน



เส้นทางปล่อยน้ำฝน

เส้นทางปล่อยน้ำเสีย



COREMAX
Core Service, Max Value

Coremax (Thailand) Co., Ltd.

เอกสารแนบข้อที่ 7

ภาพถ่ายแสดงระบบบำบัดน้ำเสีย



COREMAX
Core Service, Max Value

Coremax (Thailand) Co., Ltd.

เอกสารแนบรายการภาพถ่ายข้อที่ 1

-ภาพถ่ายแสดงให้เห็นว่าโรงงานมีบ่อกักน้ำสำหรับรองรับน้ำประปาจากเส้นท่อของโครงการ





COREMAX
Core Service, Max Value

Coremax (Thailand) Co., Ltd.

เอกสารแนบรายการภาพถ่ายข้อที่ 2

-ภาพถ่ายแสดงให้เห็นว่าโรงงานมี Inspection Manhole

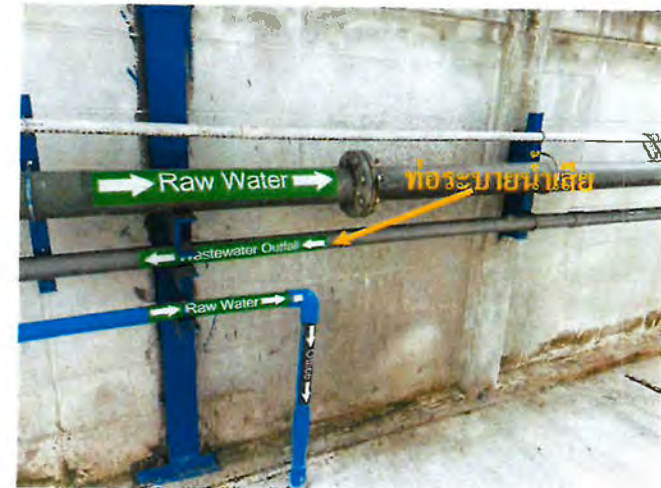


COREMAX
Core Service, Max Value

Coremax (Thailand) Co., Ltd.

เอกสารแนบรายการภาพถ่ายข้อที่ 4

-ภาพถ่ายแสดงการแยกระบบระบายน้ำเสียออกจากน้ำฝน



เอกสารแนบรายการภาพถ่ายข้อที่ 4

-ภาพถ่ายแสดงการแยกระบบระบายน้ำเสียออกจากน้ำฝน



ระบบระบายน้ำฝน



ระบบระบายน้ำเสีย



ภาพถ่ายแสดงของพจนานุกรมสำหรับรณรงค์ประชาสัมพันธ์ของโครงการ

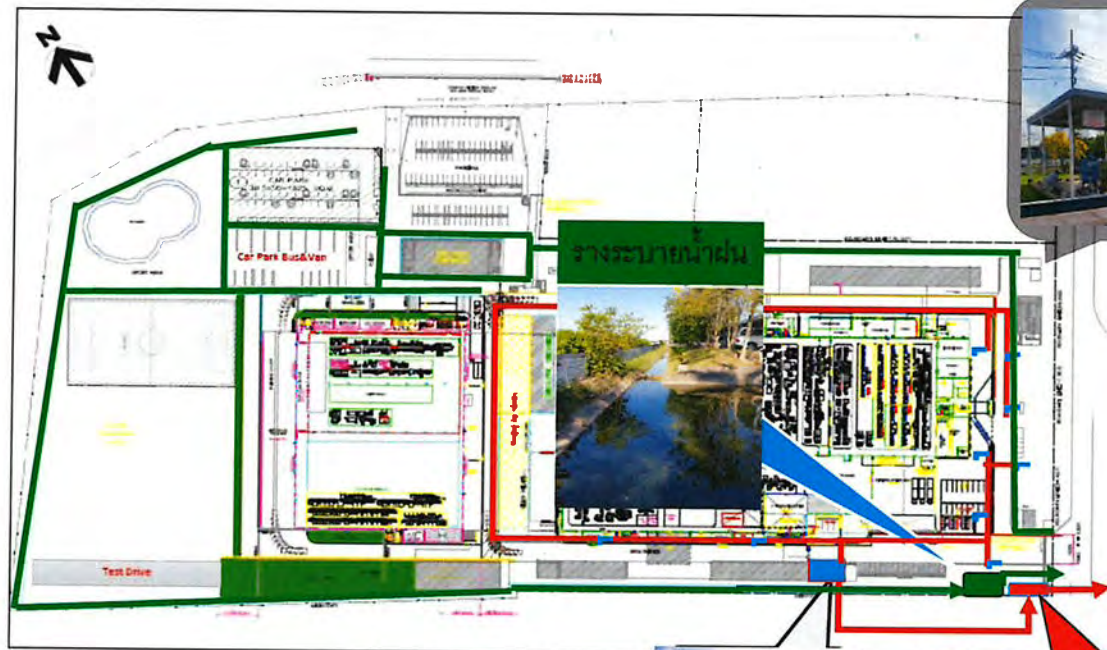


ภาพถ่ายแสดงการแยกขยะระบบระบายน้ำเสียออกจากน้ำฝน





บ่อกักน้ำประปา



รางน้ำฝน

ท่อน้ำเสีย

ระบบบำบัดน้ำเสีย
น้ำเสียบางส่วนที่ผ่านการ
บำบัดนำไปรดน้ำต้นไม้
รอบโรงงาน



Inspection
manhole

แบบหรือภาพถ่ายระบบบำบัดน้ำเสีย



ระบบบำบัดน้ำเสีย
(บ่อบำบัดอากาศมี 3 บ่อ , เดิม EM)



บ่อบำบัดไขมัน

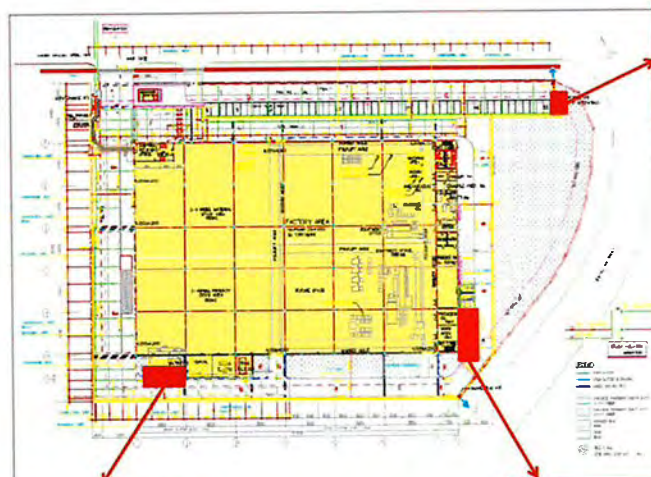
Lear Automotive(Thailand) Co., Ltd



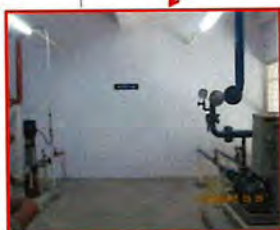
Inspection Manhole



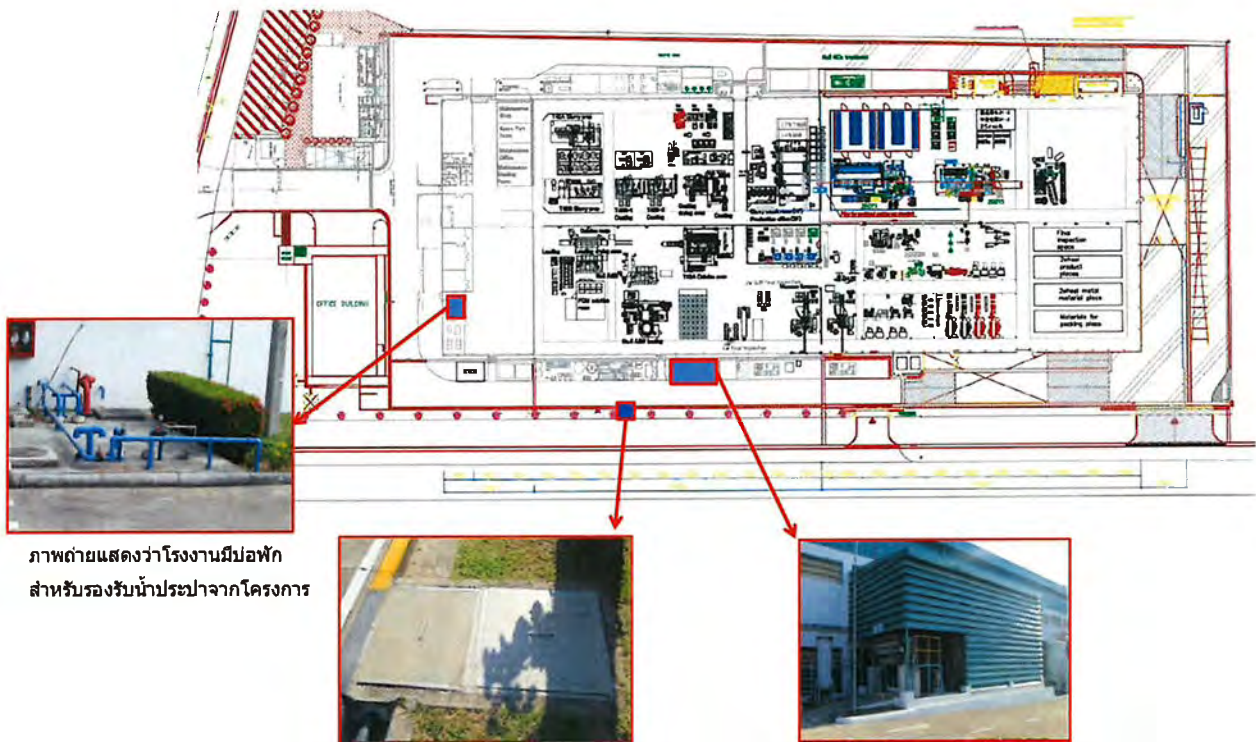
บริษัท แดททาเลอร์(ประเทศไทย) จำกัด แปลงที่ S12, S-13



ภาพถ่าย Inspection Manhole



ภาพถ่ายแสดงว่าโรงงานมีอุปกรณ์สำหรับรองรับน้ำประปาจากโครงการ ภาพถ่ายแสดงระบบบำบัดน้ำเสียเคมีปนเปื้อน



ภาพถ่ายแสดงว่าโรงงานมีบ่อฟัก
สำหรับรองรับน้ำประปาจากโครงการ

ภาพถ่ายแสดง Inspection Manhole

ภาพถ่ายแสดงระบบบำบัดน้ำเสียเคมีปนเปื้อน

1. น้ำประปาจากเส้นท่อของโครงการ



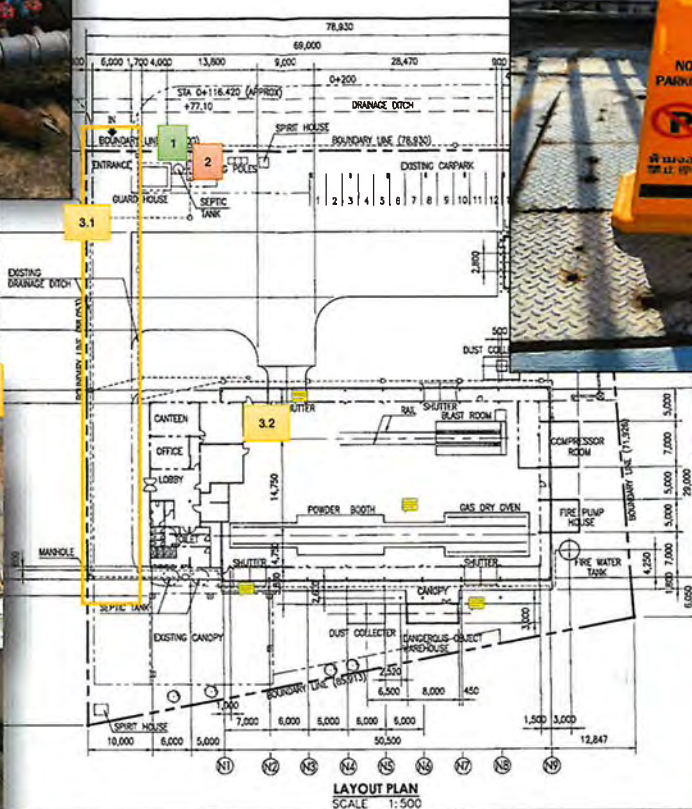
2. Inspection Manhole



3.1 ท่อรวบรวมน้ำเสียทางชีวภาพ



3.2 ภาชนะบรรจุ น้ำปนเปื้อนสารเคมี



ภาพถ่ายระบบบำบัดน้ำเสีย จุดที่ 1 (น้ำเสียจากโรงอาหาร)



ภาพถ่ายระบบบำบัดน้ำเสีย จุดที่ 2 (น้ำเสียจากห้องน้ำ)



ภาพแสดงระบบบำบัดน้ำเสีย (CHEMICAL WASTE WATER TREATMENT PLANT)





Manhole



ภาคผนวก ก-9

บันทึกปริมาณน้ำเสียเข้าระบบประจำปี 2567

ปริมาณน้ำใช้ และน้ำเสีย ของโรงงานต่างๆ ประจำปี 2567

เดือน	น้ำประปา (ลบ.ม.ต่อเดือน)	น้ำเสีย ** (ลบ.ม.ต่อเดือน)
ม.ค.	533,528.00	271,537.00
กพ.	542,656.00	274,604.00
มี.ค.	479,439.33	289,343.00
เม.ย.	475,498.00	237,468.00
พ.ค.	472,465.00	311,163.00
มิ.ย.	544,405.00	279,208.00
ก.ค.	538,173.00	306,516.00
ส.ค.	505,740.00	352,700.00
ก.ย.	505,058.00	293,988.00
ต.ค.	436,167.00	299,222.00
พ.ย.	488,365.00	287,148.00
ธ.ค.	441,749.00	244,485.27
รวมทั้งหมด	5,963,243.33	3,447,382.27
ค่าเฉลี่ย 6 เดือน	496,936.94	287,281.86
ค่าเฉลี่ยต่อวัน	16,030.22	9,267.16

ปริมาณน้ำ เสีย ที่เข้าสู่ระบบบำบัดน้ำเสีย ประจำปี 2567

เดือน	เฟส1		เฟส2บี	
	(ลบ.ม.ต่อเดือน) *	(ลบ.ม./วัน)	(ลบ.ม.ต่อเดือน) *	(ลบ.ม./วัน)
ม.ค.	168,968.00	5,450.58	102,569.00	3,308.68
กพ.	173,620.00	6,200.71	100,984.00	3,606.57
มี.ค.	182,335.00	5,881.77	107,008.00	3,451.87
เม.ย.	148,203.00	4,940.10	89,265.00	2,975.50
พ.ค.	192,684.00	6,215.61	118,479.00	3,821.90
มิ.ย.	176,578.00	5,885.93	102,630.00	3,421.00
ก.ค.	190,507.00	6,145.39	116,009.00	3,742.23
ส.ค.	226,353.00	7,301.71	126,347.00	4,075.71
ก.ย.	183,786.00	5,928.58	110,202.00	3,673.40
ต.ค.	190,815.00	6,155.32	108,407.00	3,497.00
พ.ย.	181,312.00	5,848.77	105,836.00	3,527.87
ธ.ค.	133,109.27	4,293.85	111,376.00	3,592.77
รวมทั้งหมด	2,148,270.27	70,248.34	1,299,112.00	42,694.50
ค่าเฉลี่ย 12 เดือน	179,022.52	5,854.03	108,259.33	3,557.87

ภาคผนวก ก-10

แผนการตรวจสอบอุปกรณ์ระบบบำบัดน้ำเสีย



กรมโรงงานอุตสาหกรรม
DEPARTMENT OF INDUSTRIAL WORKS

ผู้ควบคุมระบบบำบัดมลพิษ ประเภทคัล

Home
Contact Us

กรมโรงงานอุตสาหกรรม กระทรวงอุตสาหกรรม

ระบบการขึ้นทะเบียนและแจ้งการมีบุคลากรด้านสิ่งแวดล้อมประจำโรงงาน ผ่านระบบอิเล็กทรอนิกส์

หากท่านมีข้อสงสัยในการทำงาน สามารถค้นหาวิธีการแก้ปัญหาเบื้องต้นได้ดังนี้

คำถามที่ถามบ่อย [FAQ.]

Login Form



ยินดีต้อนรับ

คุณเกิ้ลดาโรน ใจกว้าง

เข้าสู่ระบบอีกครั้ง

Log Out

main menu

หน้าแรก

แก้ไขรหัสผ่าน

แก้ไขข้อมูลส่วนตัว

แจ้งเปลี่ยนชื่อ-สกุล

ประวัติคำขอ

สถานะการเป็นผู้ควบคุมฯ

ยืนยันการเป็นผู้ควบคุมฯ

พิมพ์ใบทะเบียน

Site Counter

26500

flash news

รายละเอียดผู้ควบคุมระบบบำบัดมลพิษประเภทคัล

เลขทะเบียน :

[REDACTED]

ประเภทผู้ควบคุมระบบบำบัด :

☒

น้ำ

อากาศ

กากอุตสาหกรรม

คำนำหน้าชื่อ :

นางสาว

ชื่อ :

นามสกุล :

วันเดือนปีเกิด :

เลขประจำตัวประชาชน :

ที่อยู่ติดต่อได้ :

ตำบล/แขวง :

อำเภอ/เขต :

จังหวัด :

รหัสไปรษณีย์ :

E-Mail :

โทรศัพท์ :

โทรศัพท์(มือถือ) : 0632057032

โทรสาร :

วุฒิการศึกษาที่ใช้ขึ้นทะเบียน

ลำดับ	ระดับการศึกษา	สถานศึกษา	คณะ	สาขาวิชาเอก	ปีสำเร็จการศึกษา	GPA
1	วิทยาศาสตร์บัณฑิต	ม.เกษตรศาสตร์ วิทยาเขตศรีราชา	วิทยาศาสตร์สิ่งแวดล้อม	ทรัพยากรธรรมชาติและสิ่งแวดล้อม	2552	3

รายละเอียดการขึ้นทะเบียน

วันที่ขึ้นทะเบียน : 28 ธ.ค. 2563

วันหมดอายุ : 28 ธ.ค. 2569

รายละเอียดการต่ออายุ

ลำดับ	วันที่ขึ้นทะเบียน	วันหมดอายุ
1	28 ธ.ค. 2563	28 ธ.ค. 2566
2	28 ธ.ค. 2566	28 ธ.ค. 2569

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MONTHLY REPORT FOR JULY 2024

**M&E Preventive Maintenance
WHA Logistics Building Maintenance**



AT

EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

BY



SIAMRAJATHANEE
PUBLIC COMPANY LIMITED

SIAMRAJATHANEE

Report to : คุณ [Redacted] _____
คุณ [Redacted] _____
คุณ [Redacted] _____
คุณ [Redacted] _____

Reported by: คุณ [Redacted] _____
คุณ [Redacted] _____



TABLE OF CONTENTS .

1. สรุปผลการบำรุงรักษา (Maintenance Overview)	3
2. สรุปเครื่องจักรที่มีปัญหา (Abnormalities)	4
2.1 รายการเครื่องจักรเสียหายหรือชำรุดและได้ทำการซ่อมเสร็จแล้ว	4
2.2 รายการเครื่องจักรเสียหายหรือชำรุดที่ยังซ่อมไม่เสร็จ	5
3. งานปรับปรุง (Proposed Improvements Review)	6
3.1 การเสนอราคาเพื่ออนุมัติในเดือนนี้	6
3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้	6
3.3 ข้อเสนอแนะจากลูกค้าโรงงาน	6
4. Key Performance Index (KPI)	7
4.1 Perform of Breakdown Recode For Each Group of Equipment	7
4.2 Spare - Part And Consumable From Customer Store	7
5. ภาคผนวก	
MONTHLY PLAN FOR STAND BY ON CALL ON JULY 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN JULY 2024	
MONTHLY FOR STAND BY ON CALL ON JULY 2024	
PREVENTIVE MAINTENANCE WORK REQUEST REPORT IN JULY 2024	
MONTHLY PLAN FOR STAND BY ON CALL ON AUGUST 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN AUGUST 2024	



1. สรุปผลการตรวจเช็คและซ่อมบำรุงรักษา (Maintenance Overview)

งานบริการบำรุงรักษาเชิงป้องกันในเดือนที่ผ่านมา สามารถสรุปได้ดังนี้

เครื่องจักร (Equipment Group)	จำนวนรวม (Qty)	ประเภทของการปฏิบัติงาน					
		แผนการตรวจสอบ(P.M)		ความผิดปกติ (C.M)		เสีย Breakdown	
		วางแผน Planned	งานที่ทำได้ Actual	พบงาน Found	ซ่อมเสร็จ Fixed	พบงาน Found	ซ่อมเสร็จ Fixed
1. Motor & pump							
-SUBMERSIBLE PUMP (LIFT STATION)	60	60	60	5	1	4	1
-SUREFACE AERATOR (WWTP-1)	13	13	13	1	-	1	-
-SUREFACE AERATOR (WWTP-2)	6	6	6	1	-	1	-
-SUBMERSIBLE PUMP (COD ONLINE)	2	2	2	-	-	-	-
-RAW WATER PUMP (POND,5)	5	5	5	1	-	1	-
-REUSED WATER PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC FEED PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC MIXER PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-CHLORINE FEED PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-SLOW MIXER (REUSE PLANT)	2	2	2	-	-	-	-
-SUBMERSIBLE PUMP (PLAZA 2)	4	4	4	1	-	1	-
-AJR BLOWER (PLAZA 2)	2	2	2	-	-	-	-
-AERATOR (RESIDENT)	2	2	2	-	-	-	-
-BOOSTER PUMP (RESIDENT)	2	2	2	-	-	-	-
2. ENGINE WATER PUMP							
-ENGINE WATER PUMP	2	2	2	-	-	-	-
3. Power Supply and Control System							
- MCC (POND.5)	1	1	1	1	-	1	-
4. Other requested							
- Other requested	-	-	-	-	-	-	-



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipment break down and was recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
1	-WHAD-ESIE-ESIE-LS-7-SMP3-MOT	LS-7-SMP3	-เนื่องจาก Coil ขดลวดมอเตอร์ Short Circuit ถึง Ground พร้อมกับการเปลี่ยนจุด Mechanical Seal , จุด Bearing ด้านหน้า และด้านหลัง , จุด O-ring ใหม่ WHAD-ESIE-ESIE-LS-2024-00010	- พันคอยล์ขดลวดใหม่ - เปลี่ยนเบร้งใหม่ No.6305-2Z/C3 - เปลี่ยนเบร้งใหม่ No.6309-2Z/C3 - Replace Mechanical Seal Brand :CMG1-33-48 mm - Pepair Seal Gasket - กลึงสวมปลอกเพล่าข้อต่อใหม่ หน้า+หลัง - เปลี่ยนสายไฟใหม่ H07RN-F504 750 V .12G2.5 เสรี เรียบร้อยวันที่ 9 ก.ค. 2024
2				
3				
4				
5				



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.2 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมไม่ได้เสร็จ(The following equipment break down and was NOT recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	เหตุผลที่ไม่ได้ซ่อม Reason NOT Fixed	แผนงานที่ต้องทำ Plan action
1	-WHAID-ESIE- ESIE-WWTP1- ART-1A3-MOT	WWTP1	-ขดลวดมอเตอร์ Aerator No.1A3 ไหม้ลงกราวด์ WHAID-ESIE-ESIE-WWTP1- 2024-00002	อยู่ระหว่างซ่อมแซม	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
2	-WHAID-ESIE- ESIE-LS-4-SMP1- MOT	LS-4-SMP1	- ขดลวดมอเตอร์ Short Circuit ลง Ground WHAID-ESIE-ESIE-LS-2024- 00012	อยู่ระหว่างซ่อมแซม	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
3	-WHAID-ESIE- ESIE-LS-7-SMP1- MOT	LS-7-SMP1	-ขดลวดมอเตอร์ Short Circuit ลง Ground WHAID-ESIE-ESIE-LS-2024- 00013	อยู่ระหว่างซ่อมแซม	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
4	-WHAID-ESIE- ESIE-LS-7-SMP6- PUM	LS-7-SMP6	-น็อตยึดใบพัดปั๊ม หลวมคลาย WHAID-ESIE-ESIE-LS-2024- 00014	อยู่ระหว่างซ่อมแซม	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
5	-WHAID-ESIE- ESIE-WWTP2- ART-2A1-MOT	WWTP2	-Bearing และ ใบพัดระบาย ความร้อน ชำรุดเสียหาย WHAID-ESIE-ESIE-WWTP2- 2024-00003	อยู่ระหว่างซ่อมแซม	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
6	-WHAID-ESIE- ESIE-LS-6-SMP3- MOT	LS-6-SMP3	-Coil ขดลวดมอเตอร์ Short Circuit ลง Ground พร้อมกับ เปลี่ยนชุดMechanical Seal , ชุด Bearing ด้านหน้าและด้านหลัง , ชุด O-ring ใหม่ WHAID-ESIE-ESIE-LS-2024- 00015	อยู่ระหว่างเสนอราคา	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
7	-WHAID-ESIE- ESIE-PLZ2- SMP2-1-MOT	PLAZA 2-SMP2-1	-ขดลวดมอเตอร์ไหม้ลงกราวด์ WHAID-ESIE-ESIE-PLZ2- 2024-00020	อยู่ระหว่างซ่อมแซม	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง



8	-WHAID-ESIE- ESIE-POND5- MCC-ETE	ESIE-POND5	-ไม่ได้ติดตั้งอุปกรณ์ สวิทช์ถูก ลดยไฟฟ้า (LEVEL Switch) ซึ่งต้องการทำงานของ ปั่นสูบน้ำ ธรรมชาติ 3 เครื่อง WHAID-ESIE-ESIE-POND5- 2024-00003	อยู่ระหว่างเสนอราคา	นักผู้รับรับเหมาเข้ามา ซ่อมแซมและติดตั้ง
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3.1 การนำเสนอราคาซึ่งออกอนุมัติในเดือนนี้ ดังมี (Past month's Quotation waiting for decision)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้ (New Quotation during this month)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.3 ข้อเสนอแนะจากผู้ทำรายงาน (Recommendation)

ลำดับที่	อุปกรณ์/สถานที่	ความเสี่ยงที่พบ	แนวทางการปรับปรุง	Status



4.1 Percentage of Breakdown Record for each group equipment ในเดือนที่ผ่านมาสามารถสรุปได้ดังนี้

กลุ่มอุปกรณ์(Equipment Group)	Breakdown Time Unit	Number of Equipment	% Break down of Total Equipment
1. Motor and Pump	7	104	6.73%
2. ENGINE WATER PUMP	0	2	0.00%
3. Power Supply and Control System	1	1	100.00%
4. Other requested	0	0	0.00%

4.2 อะไหล่และอุปกรณ์เปลี่ยนที่ต้องเก็บจากลูกค้า (Spare-Part and consumable from customer store) เพื่อใช้งานซ่อมบำรุงและอื่นๆ

NO.	Designation	Qty.	Remark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

>>>>>>>>>> End of Report <<<<<<<<<<<

Service team Siamrajathanee

Reported by: [REDACTED]

Signature :

Customer.

Attention to: [REDACTED]

Signature :



SIAM RAJATHANEE

MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 JULY - 31 JULY 2024

ลำดับ	ชื่อ-นามสกุล	MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	โทร. ฉุกเฉิน
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	นายณัฐวุฒิ ทำหีนกอง	X	X	X	X	X	X		X	X	X											X	X	X	X	X	X		X	X	X	063-0855577	
2	นายธีรยุทธ วงศ์นคร	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X											0820030726	
3	นายสุทธิพงษ์ ถิ่นโน											X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	X	099-2472512	

ข้อกำหนดผู้ที่ Stand by on call

- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้มีรายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้

นายณัฐวุฒิ ทำหีนกอง

นายธีรยุทธ วงศ์นคร

นายสุทธิพงษ์ ถิ่นโน

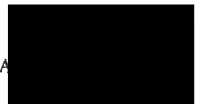


SIAM RAJATHANEE

ESIE MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN
AND ACTUAL PLAN ON JULY 2024

บันทึกโดย (Record By) : Mr. A

วันที่ (Date) : 31/07/2024





MONTHLY PLAN FOR STAND BY ON CALL

วันที่	เวลา	รายชื่อผู้เฝ้าระวัง	รายชื่อพนักงานเข้าดำเนินงาน	เครื่องจักร	สถานที่	รายละเอียด



ESIE PM WORK REQUEST REPORT
ON JULY 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit
วันที่ (Date) :31/07/2024



ESIE PM WORK REQUEST REPORT IN JULY 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	เลขเข้าใช้ประจำตัว	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/7/2024	วันที่ 1/8/2024	รวม(กWh.)	ผู้ปฏิบัติงาน	สถานะ	หมายเหตุ
1	SMP-LS.1-1 to 4	SUBMERSIBLE PUMP LS.1 No.1	M,Q,S	LIFT STATION 1	9/7/2024	3038.4	3108.136	617.36	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	ดูรายละเอียดเพิ่มเติมใน GUIDE
		SUBMERSIBLE PUMP LS.1 No.2				20469.87	21066.94	617.07	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.1 No.3				19326.51	20073.09	745.58	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.1 No.4				43226.28	43972.35	746.07	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
2	SMP-LS.2-1 to 4	SUBMERSIBLE PUMP LS.2 No.1	M	LIFT STATION 2	9/7/2024	10541.3	10646.11	104.81	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.2 No.2				16053.59	16085.44	31.85	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.2 No.3				39568.96	39627.87	58.91	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.2 No.4				14672.65	14795.12	122.47	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
3	SMP-LS.3-1 to 4	SUBMERSIBLE PUMP LS.3 No.1	M	LIFT STATION 3	9/7/2024	50802.84	50990.47	107.63	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.3 No.2				21099.61	21120.69	61.08	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.3 No.3				21942.97	21981.87	38.9	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.3 No.4				57230.66	57256.75	26.09	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
4	SMP-LS.4-1 to 4	SUBMERSIBLE PUMP LS.4 No.1	M,Q	LIFT STATION 4	9/7/2024	56255.40	56255.40	0.00	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	อยู่ระหว่างการซ่อม	พบความผิดปกติ Short Circuit 84 Ground WHAID-ESIE-ESIE-LS-2024-00012
		SUBMERSIBLE PUMP LS.4 No.2				80326.62	80739.05	412.43	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.4 No.3				78938.41	79350.84	412.43	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.4 No.4				71646.65	72059.67	410.82	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
5	SMP-LS.5-1 to 3	SUBMERSIBLE PUMP LS.5 No.1	M	LIFT STATION 5	9/7/2024	26214.31	26231.25	16.94	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.5 No.2				24620.76	24639.56	18.80	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.5 No.3				13648.35	13666.22	17.87	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
6	SMP-LS.6-1 to 4	SUBMERSIBLE PUMP LS.6 No.1	M	LIFT STATION 6	9/7/2024	27776.08	27897.59	121.51	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.6 No.2				62878.87	62887.7	8.83	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.6 No.3				4500.68	45611.31	10.63	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	อยู่ระหว่างการซ่อม	
		SUBMERSIBLE PUMP LS.6 No.4				43440.66	43603.56	162.9	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	



ESIE PM WORK REQUEST REPORT IN JULY 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	เลขเข้าใช้ประจำตัว	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/7/2024	วันที่ 1/8/2024	รวม(กWh.)	ผู้ปฏิบัติงาน	สถานะ	หมายเหตุ
7	SMP-LS.7-1 to 5	SUBMERSIBLE PUMP LS.7 No.1	M,Q,S,Y	LIFT STATION 7	29/7/2024	N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	อยู่ระหว่างการซ่อม	พบความผิดปกติ Short Circuit 84 Ground WHAID-ESIE-ESIE-LS-2024-00013
		SUBMERSIBLE PUMP LS.7 No.2				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.3				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	เกิดรอยร้าวท่อระบาย (เบี่ยงเบนน้ำ, Mechanical Seal, Gasket มีน้ำรั่วไหล วันที่ 9 ก.ค. 2024)
		SUBMERSIBLE PUMP LS.7 No.4				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.5				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	มีข้อผิดพลาดที่บันทึกในใบแจ้งความ WHAID-ESIE-ESIE-LS-2024-00014
		SUBMERSIBLE PUMP LS.7 No.6				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	อยู่ระหว่างการซ่อม	
		SUBMERSIBLE PUMP LS.7 No.7				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.8				N/A	N/A	N/A	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
8	SMP-LS.8-1 to 4	SUBMERSIBLE PUMP LS.8 No.1	M	LIFT STATION 8	27/7/2024	16276.71	16308.35	31.64	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.8 No.2				14952.49	14977.64	25.15	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.8 No.3				18982.2	19001.97	19.77	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.8 No.4				17903.39	18281.14	371.75	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
9	SMP-LS.9-1 to 3	SUBMERSIBLE PUMP LS.9 No.1	M	LIFT STATION 9	27/7/2024	25163.98	25442.28	288.3	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.9 No.2				34720.08	34932.36	212.18	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.9 No.3				19819.45	19824.32	4.87	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
10	SMP-LS.10-1 to 4	SUBMERSIBLE PUMP LS.10 No.1	M,Q	LIFT STATION 10	27/7/2024	8088.81	8209.88	30.107	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.10 No.2				8121	8322.79	201.79	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.10 No.3				8097.68	8209.63	111.95	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.10 No.4				8980.84	9086.44	97.6	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
11	SMP-LS.11-1 to 4	SUBMERSIBLE PUMP LS.11 No.1	M	LIFT STATION 11	27/7/2024	3111.03	3118.59	7.56	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.11 No.2				1081.58	1086.59	5.01	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.11 No.3				1075.01	1080.37	5.36	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.11 No.4				910	915.13	5.13	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
12	SMP-LS.12-1 to 2	SUBMERSIBLE PUMP LS.12 No.1	M	LIFT STATION 12	27/7/2024	1885.45	2025.21	139.76	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.12 No.2				7816.19	7954.71	138.52	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.13 No.1				79.05	79.05	0	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
13	SMP-LS.13-1 to 3	SUBMERSIBLE PUMP LS.13 No.2	M,Q,S	LIFT STATION 13	27/7/2024	12092.41	12112.7	20.29	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.13 No.3				13272.97	13295.13	22.16	ตรวจสอบ,รีเซ็ตการ,เปลี่ยน	ใช้งานได้ปกติ	

ESIE PM WORK REQUEST REPORT IN JULY 2024

รหัสนี้	รหัสเครื่องจักร	ชื่อเครื่องจักร	ขนาด/รุ่น/ปี	สถานที่	วันที่เปิดใช้งาน	วันที่	วันที่	ราคา (บาท)	ผู้ขาย/บริษัท	สถานะ	หมายเหตุ
14	SMP-LS.14-1 No.4	SUBMERSIBLE PUMP LS.14 No.1	M	LIFT STATION 14	27/7/2024	529.93	536.86	6.93	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
		273.44				280.97	7.53	ดูวิธีการใช้งาน	ใช้งานได้ปกติ		
		268.02				279.13	7.11	ดูวิธีการใช้งาน	ใช้งานได้ปกติ		
		413.38				419.95	6.57	ดูวิธีการใช้งาน	ใช้งานได้ปกติ		
15	SMP-LS.15-1 No.3	SUBMERSIBLE PUMP LS.15 No.1	M	LIFT STATION 15	27/7/2024	3446.23	3495.95	49.7	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
		4749.1				4859.3	90.2	ดูวิธีการใช้งาน	ใช้งานได้ปกติ		
		4240.62				4293.67	50.05	ดูวิธีการใช้งาน	ใช้งานได้ปกติ		
16	SMP-LS.16-1 No.2	SUBMERSIBLE PUMP LS.16 No.1	M,Q	LIFT STATION 16	27/7/2024	1079.81	1091.43	11.62	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
		1076.27				1086.67	12.40	ดูวิธีการใช้งาน	ใช้งานได้ปกติ		
17	1A-1	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	2486.86	2831.97	345.11	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
18	1A-2	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	1746.53	2084.76	338.23	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
19	1A-3	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	4704.61	4704.61	0	ดูวิธีการใช้งาน	อยู่ระหว่างการซ่อม	พบความผิดปกติ Aerator No.1A3 ไม่ทำงาน WHAAD-ES-ES3E-WWTP-2024-00001
20	1A-4	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	111.95	232.44	344.39	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	(Sum) 10300-3088.2=119.5
21	1A-5	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	1396.16	1774.94	378.78	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
22	1A-6	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	1622.37	1965.51	343.14	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
23	2A-1	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	8184.13	8296.65	66.52	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
24	2A-2	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	8481.08	8747.57	266.49	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
25	2A-3	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	7894.0	7338.29	244.29	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
26	2A-4	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	4232.57	4232.58	0.01	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
27	2A-5	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	2809.76	2935.16	125.4	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
28	2A-6	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	1351.47	1615.59	264.12	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
29	3A1	SURFACE AERATOR (WWTP)	M	WWTP - 1	18/7/2024	17594.43	17594.43	0	ดูวิธีการใช้งาน	ไม่ทำงาน	
30	1A-1	SURFACE AERATOR	M,Q,S,Y	WWTP - 2	19/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
31	1A-2	SURFACE AERATOR	M,Q,S,Y	WWTP - 2	19/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
32	1A-3	SURFACE AERATOR	M,Q,S,Y	WWTP - 2	19/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
33	1A-4	SURFACE AERATOR	M,Q,S,Y	WWTP - 2	19/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
34	2A-1	SURFACE AERATOR	M,Q,S,Y	WWTP - 2	19/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	อยู่ระหว่างการซ่อม	พบความผิดปกติ Aerator No.1A3 ไม่ทำงาน WHAAD-ES-ES3E-WWTP-2024-00003
35	2A-2	SURFACE AERATOR	M,Q,S,Y	WWTP - 2	19/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
36	SMP-COD-1	SUBMERSIBLE PUMP	M	COD ONLINE	31/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	
37	SMP-COD-2	SUBMERSIBLE PUMP	M	COD ONLINE	31/7/2024	N/A	N/A	N/A	ดูวิธีการใช้งาน	ใช้งานได้ปกติ	

ESIE PM WORK REQUEST REPORT IN JULY 2024

[illegible]



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 AUGUST - 31 AUGUST 2024

[illegible]

ข้อกำหนดผู้ที่ Stand by on call

- 1.ผู้ที่ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- 2.ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขปัญหาเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างใด
- 3.ผู้มีรายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้

นายวุฒิ ทัฬหี

นายสุทธพิชญ์ สิมโน



Monthly Preventive Maintenance Schedule Plan August 2024

CUSTOMER: EASTERN SEASOARD INDUSTRIAL ESTATE (RAYONG)

Product Size: 8" x 10"

[illegible]

Remark : M=Monthly, Q = Quarterly, S= Semi Yearly, Y=Yearly, W=Weekly

- ☐ วัฒนธรรมประจำชาติ
- ☐ วัฒนธรรมจิตวิญญาณ
- ☐ วัฒนธรรมสุขภาพ

TEAM 1 (SABRAJATHA)

Plan By: _____
(SEAIRAJATHANBE)

Checked By: _____
RFP#

Approved By: _____
(Date)



MONTHLY REPORT FOR AUGUST 2024

M&E Preventive Maintenance
WHA Logistics Building Maintenance



AT

EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

BY



SIAMRAJATHANEE
PUBLIC COMPANY LIMITED

SIAMRAJATHANEE

Report to :

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Reported by:

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TABLE OF CONTENTS .

1. สรุปผลการบำรุงรักษา (Maintenance Overview)	3
2. สรุปเครื่องจักรที่มีปัญหา (Abnormalities)	4
2.1 รายการเครื่องจักรเสียหายหรือชำรุดและได้ทำการซ่อมเสร็จแล้ว	4
2.2 รายการเครื่องจักรเสียหายหรือชำรุดที่ยังซ่อมไม่เสร็จ	6
3. งานปรับปรุง (Proposed Improvements Review)	7
3.1 การเสนอราคาต่อมูลค่าในเดือนนี้	7
3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้	7
3.3 ข้อเสนอแนะจากผู้ทำรายงาน	7
4. Key Performance Index (KPI)	8
4.1 Perform of Breakdown Recode For Each Group of Equipment	8
4.2 Spare - Part And Consumable From Customer Store	8
5. ภาคผนวก	
MONTHLY PLAN FOR STAND BY ON CALL ON AUGUST 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN AUGUST 2024	
MONTHLY FOR STAND BY ON CALL ON AUGUST 2024	
PREVENTIVE MAINTENANCE WORK REQUEST REPORT IN AUGUST 2024	
MONTHLY PLAN FOR STAND BY ON CALL ON SEPTEMBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN SEPTEMBER 2024	



1. สรุปผลการตรวจเช็คและซ่อมบำรุงรักษา (Maintenance Overview)

งานบริการบำรุงรักษาเชิงป้องกันในเดือนที่ผ่านมา สามารถสรุปได้ดังนี้

เครื่องจักร (Equipment Group)	จำนวนรวม (Qty)	ประเภทของการปฏิบัติงาน					
		แผนการตรวจสอบ (P.M)		ความผิดปกติ (C.M)		เสีย Breakdown	
		วางแผน Planned	งานที่ทำได้ Actual	พบงาน Found	ซ่อม เสร็จFixed	พบงาน Found	ซ่อมเสร็จ Fixed
1. Motor & pump							
-SUBMERSIBLE PUMP (LIFT STATION)□	60	60	60	5	4	5	4
-SUREFACE AERATOR (WWTP-1)	13	13	13	1	1	1	1
-SUREFACE AERATOR (WWTP-2)	6	6	6	1	1	1	1
-SUBMERSIBLE PUMP (COD ONLINE)	2	2	2	-	-	-	-
-RAW WATER PUMP (POND.5)	5	5	5	-	-	-	-
-REUSED WATER PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC FEED PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC MIXER PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-CHLORINE FEED PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-SLOW MIXER (REUSE PLANT)	2	2	2	-	-	-	-
-SUBMERSIBLE PUMP (PLAZA 2)	4	4	4	2	1	2	1
-AIR BLOWER (PLAZA 2)	2	2	2	-	-	-	-
-AERATOR (RESIDENT)	2	2	2	-	-	-	-
-BOOSTER PUMP (RESIDENT)	2	2	2	-	-	-	-
2. ENGINE WATER PUMP							
-ENGINE WATER PUMP	2	2	2	-	-	-	-
3. Power Supply and Control System							
- MCC (POND.5)	1	1	1	1	-	1	-
4. Other requested							
- Other requested	-	-	-	-	-	-	-



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipment break down and was recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
1	-WHAID-ESIE-ESIE-LS-4-SMP1-MOT	LS-4-SMP1	- ขดลวดมอเตอร์ Short Circuit ลง Ground WHAID-ESIE-ESIE-LS-2024-00012	- พันคอตซ์ขดลวดใหม่ลวด 200 องศา เปลี่ยนเบร้งใหม่ No.6207-22/C3- เปลี่ยนเบร้งใหม่ No.3307-ATN9 Replace Mechanical Seal Brand : RNO 35-50mm เปลี่ยนไดรจ เปลี่ยนเอชซีใหม่ 42-62-8 เสร็จเรียบร้อยวันที่ 5 ต.ค. 2024
2	-WHAID-ESIE-ESIE-WWTP1-ART-1A3-MOT	WWTP1	- ขดลวดมอเตอร์ Aerator No.1A3 ใหม่ ลงกราวด์ WHAID-ESIE-ESIE-WWTP1-2024-00002	- Rewind Motor Replace Bearing on DE&NDE no.6309-2RS1 Replace V-Ring on DE&NDE no. VA-45 Replace Aluminum Cooling Fan 8" Rebush Housing on DE&NDE no.7 100 mm.เสร็จเรียบร้อยวันที่ 8 ต.ค. 2024
3	-WHAID-ESIE-ESIE-LS-7-SMP1-MOT	LS-7-SMP1	- ขดลวดมอเตอร์ Short Circuit ลง Ground WHAID-ESIE-ESIE-LS-2024-00013	- พันคอตซ์ขดลวดใหม่ลวด 200 องศา HITACHI AMW-XV เปลี่ยนเบร้งใหม่ No.6305-22/C3 1 ต เปลี่ยนเบร้งใหม่ No.6309-22/C3 - Replace Mechanical Seal Brand :CMG1-33-48 mm - ถอดสกรูออกเพื่อใส่ซีทใหม่ หน้า+หลัง - ถอดสกรูเฟืองมอเตอร์ใหม่ ด้านหน้า + ด้านหลัง - Balance Rotor & Impeller เสร็จเรียบร้อยวันที่ 6 ต.ค. 2024
4	-WHAID-ESIE-ESIE-LS-7-SMP6-PUM	LS-7-SMP6	- น๊อตซีทปั๊มหักป๊ม หลวมคล้อย WHAID-ESIE-ESIE-LS-2024-00014	- ถึงสกรูปลายแกนเพลาปั๊ม - ถึงสกรูปลอกสแตมต สกรูเพลาในหัก - ถึงสกรูน๊อตซีทปั๊มพร้อมน๊อต Balance Rotor & Impeller เสร็จเรียบร้อยวันที่ 6 ต.ค. 2024
5	-WHAID-ESIE-ESIE-WWTP2-ART-2A1-MOT	WWTP2	- Bearing และ ใบพัดระบายน ความร้อน ชำรุดเสียหาย WHAID-ESIE-ESIE-WWTP2-2024-00003	OVERHAUL MOTOR Replace Bearing on DE&NDE no.6309-2RS1 Replace V-Ring on DE&NDE no. VA-45 Replace Aluminum Cooling Fan 8" Rebush Housing on DE&NDE no.7 100 mm. เสร็จเรียบร้อยวันที่ 8 ต.ค. 2024



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipment break down and was recovered)

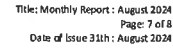
ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
6	-WHAID-ESIE- ESIE-LS-6- SMP3-MOT	LS-6-SMP3	-Coil ขัดลวดมอเตอร์ Short Circuit ลง Ground พร้อมกับ เปลี่ยนชุด Mechanical Seal , ชุด Bearing ด้านหน้าและ ด้านหลัง , ชุด O-ring ใหม่ WHAID-ESIE-ESIE-LS- 2024-00015	- พันคอยล์ขดลวดใหม่ลวด 200 องศา HITACHI AMW-XV - เปลี่ยนเบร้งใหม่ No.6207-2Z/C3- - เปลี่ยนเบร้งใหม่ No.3307-ATN9 - Replace Mechanical Seal Brand : RNO 35-50mm - Mobil Hydraulic No.68 Pennzoil - Balance Rotor & Impeller - เปลี่ยนโอริง เครื่องเรียบร้อยแล้ววันที่ 28 ส.ค. 2024
7	-WHAID-ESIE- ESIE-PLZ2- SMP2-I-MOT	PLAZA 2-SMP2-I	-ขดลวดมอเตอร์ไหม้ลง กราวด์ WHAID-ESIE-ESIE-PLZ2- 2024-00020	- พันคอยล์ขดลวดใหม่ลวด 200 องศา HITACHI AMW-XV - เปลี่ยนเบร้งใหม่ No.6203-2Z/C3- - เปลี่ยนเบร้งใหม่ No.6204-2Z/C3- - Replace Mechanical Seal Brand :Calpeda 15-30-30 - เปลี่ยนโอริง เครื่องเรียบร้อยแล้ววันที่ 28 ส.ค. 2024
8				
9				
10				



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.2 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมไม่แล้วเสร็จ (The following equipment break down and was NOT recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	เหตุผลที่ไม่ได้ซ่อม Reason NOT Fixed	แผนงานที่ต้องทำ Plan action
1	-WHAID-ESIE- ESIE-POND5- MCC-ETE	ESIE-POND5	-ไม่ได้อัดตั้งอุปกรณ์ สวิทซ์ ถูกดองไฟฟ้า (LEVEL Switch) จึงคัดการทำงานของ ปั๊มน้ำธรรมชาติ 3 เครื่อง WHAID-ESIE-ESIE- POND5-2024-00003	อยู่ระหว่างเสนอราคา	นัดผู้รับเหมาเข้ามา มาซ่อมแซมและติดตั้ง
2	-WHAID-ESIE- ESIE-PLZ2- SMPI-I-MOT	PLAZA 2-SMP1-I	-ขดลวดมอเตอร์ไหม้ลง กราวด์ ไม่สามารถใช้งานได้ WHAID-ESIE-ESIE-PLZ2- 2024-00021	อยู่ระหว่างอนุมัติงบประมาณ	วางแผน PM รอบ เดือนต่อไป
3	WHAID-ESIE- ESIE-LS-I- SMP2-MOT	LS-I-SMP2	เนื่องจากชุด Mechanical Seal , ชุด Bearing ด้านหน้าและ ด้านหลัง , ชุด O-ring ชำรุด เสียหาย และใบพัดบิ่นหัก เสื่อมสภาพ WHAID-ESIE-ESIE-LS- 2024-00016	อยู่ระหว่างเสนอราคา	นัดผู้รับเหมาเข้ามา มาซ่อมแซมและติดตั้ง
4					
5					

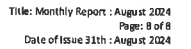


3.1 การนำเสนอราคาซึ่งออกอนุมัติในเดือนนี้ ดังนี้ (Past month's Quotation waiting for decision)

3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้ (New Quotation during this month)

3.3 ข้อเสนอแนะจากผู้ทำรายงาน (Recommendation)

ลำดับที่	อุปกรณ์/สถานที่	ความเสี่ยงที่พบ	แนวทางการปรับปรุง	Status



4.1 Percentage of Breakdown Record for each group equipment ในเดือนที่ผ่านมาสามารถสรุปได้ดังนี้

4.2 อะไหล่และอุปกรณ์สิ้นเปลืองที่เบิกจากลูกค้า (Spare-Part and consumable from customer store) เพื่อใช้งานซ่อมบำรุง

และอื่นๆ

NO.	Designation	Qty.	Remark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

>>>>>>>>>> End of Report <<<<<<<<<<<

Service team Siamrajathane

Customer.

Reported by:

Signature : ..



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 AUGUST - 31 AUGUST 2024

ลำดับ	ชื่อ-นามสกุล	TUE	FRI	SAT	MON	TUE	WED	TUE	FRI	SAT	MON	TUE	WED	TUE	FRI	SAT	MON	TUE	WED	TUE	FRI	SAT	MON	TUE	WED	TUE	FRI	SAT	หมายเลข
		1	2	3	5	6	7	8	9	10	12	13	14	15	16	17	19	20	21	22	23	24	26	27	28	29	30	31	
1	นายณัฐวุฒิ ทำหิณกอง	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	063-0855577
2	นายสุทธิพงษ์ สิม โน	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	099-2472512
3																													

ข้อกำหนดผู้ที่ Stand by on call

- ผู้ที่ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้ที่มีรายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้



ESIE MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN
AND ACTUAL PLAN ON AUGUST 2024

บันทึกโดย (R
วันที่ (Date) :3



[illegible]

Remark : M=Monthly , Q = Quarterly , S=Semi Yearly , Y=Yearly , W=Weekly

☐ ทัณฑ์พลเรือนที่ปราศจาก

TEAM 1 (SANGRAJATH)

Plan By : _____
(SAMBRAJITHANEE)

Checked By: _____
(CPM)

Approved By _____
(Signature)



MONTHLY PLAN FOR STAND BY ON CALL

ON AUGUST 2024

บันทึกโดย (Record By) :

วันที่ (Date) : 31/08/2024



MONTHLY PLAN FOR STAND BY ON CALL

วันที่	เวลา	รายชื่อผู้แจ้งงาน	รายชื่อพนักงานเข้า ดำเนินการ	เครื่องจักร	สถานที่	รายละเอียด



ESIE PM WORK REQUEST REPORT
ON AUGUST 2024

บันทึกโดย (Record By) :
วันที่ (Date) : 31/08/2024





ESIE PM WORK REQUEST REPORT IN AUGUST 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	เลขงานประจำตัว	สถานที่	วันที่ปฏิบัติงาน	วันที่เกิด	วันที่เกิด	วัน(ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
1	SMP-LS.1-1 to 4	SUBMERSIBLE PUMP LS.1 No.1	M	LIFT STATION 1	19/8/2024	31001.36	31100.04	106.68	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	ถูก Mechanical Team, พู Bearing ใช้งานตามปกติในกรณี, ถูก On-line ใช้งานตามปกติ และไม่มีข้อผิดพลาด WHAID-E3SR-E3SE-LS-2024-08014
		SUBMERSIBLE PUMP LS.1 No.3				21006.94	21202.57	115.63	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.1 No.3				20072.09	20366.91	294.83	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.1 No.4				43972.35	44267.18	294.83	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
2	SMP-LS.3-1 to 4	SUBMERSIBLE PUMP LS.3 No.1	MQS	LIFT STATION 2	19/8/2024	10646.11	11059.99	413.88	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.2				16085.44	16154.06	68.82	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.3				39437.87	39739.88	112.01	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.4				14795.12	15312.18	417.06	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
3	SMP-LS.3-1 to 4	SUBMERSIBLE PUMP LS.3 No.1	M	LIFT STATION 3	19/8/2024	50990.47	51108.94	198.47	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.3				21120.89	21237.1	116.41	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.3				21981.87	22057.12	75.25	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.4				57254.75	57308.72	51.97	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
4	SMP-LS.4-1 to 4	SUBMERSIBLE PUMP LS.4 No.1	M	LIFT STATION 4	19/8/2024	54255.40	54548.33	292.93	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.4 No.2				80739.05	81007.47	868.43	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.4 No.3				79350.84	80219.36	868.43	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.4 No.4				72059.67	72916.13	866.46	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
5	SMP-LS.5-1 to 3	SUBMERSIBLE PUMP LS.5 No.1	MQ	LIFT STATION 5	19/8/2024	26231.25	26271.74	40.49	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.5 No.3				24639.56	24699.74	60.18	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.5 No.3				13666.22	13707.09	40.87	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.5 No.3				27897.59	28115.30	217.31	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
6	SMP-LS.6-1 to 4	SUBMERSIBLE PUMP LS.6 No.1	M	LIFT STATION 6	19/8/2024	62887.7	63006.89	119.19	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	พบความผิดปกติ Short Circuit 04 Ground WHAID-E3SR-E3SE-LS-2024-08015 เจ้าหน้าที่ซ่อม วันที่ 8 ส.ค.2567
		SUBMERSIBLE PUMP LS.6 No.3				45611.31	45802.03	190.72	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.6 No.4				43603.56	44045.66	443.1	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.6 No.4									



ESIE PM WORK REQUEST REPORT IN AUGUST 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	เลขงานประจำตัว	สถานที่	วันที่ปฏิบัติงาน	วันที่เกิด	วันที่เกิด	วัน(ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
7	SMP-LS.7-1 to 5	SUBMERSIBLE PUMP LS.7 No.1	M	LIFT STATION 7	22/8/2024	N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	พบความผิดปกติ Short Circuit 04 Ground WHAID-E3SR-E3SE-LS-2024-08013 เจ้าหน้าที่ซ่อม วันที่ 8 ส.ค.2567
		SUBMERSIBLE PUMP LS.7 No.2				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.3				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.4				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.5				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.6				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.7				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.8				N/A	N/A	N/A	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
8	SMP-LS.8-1 to 4	SUBMERSIBLE PUMP LS.8 No.1	MQS.Y	LIFT STATION 8	24/8/2024	16308.35	16330.15	21.8	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.8 No.2				14977.64	15040.33	62.69	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.8 No.3				19001.97	19054.82	52.85	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.8 No.4				18281.14	18437.77	396.63	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
9	SMP-LS.9-1 to 3	SUBMERSIBLE PUMP LS.9 No.1	M	LIFT STATION 9	22/8/2024	25442.28	25576.41	134.13	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.9 No.2				34932.26	35035.71	103.45	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.9 No.3				19834.32	19837.44	3.12	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.9 No.3				8389.88	8434.57	346.69	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
10	SMP-LS.10-1 to 4	SUBMERSIBLE PUMP LS.10 No.1	M	LIFT STATION 10	22/8/2024	8322.79	8512.02	189.13	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.10 No.2				8309.43	8297.45	87.82	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.10 No.3				9086.44	9200.65	114.21	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.10 No.4				3118.59	3119.62	1.03	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
11	SMP-LS.11-1 to 4	SUBMERSIBLE PUMP LS.11 No.1	MQ	LIFT STATION 11	22/8/2024	1066.59	1087.35	0.76	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.3				1080.37	1081.21	0.84	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.4				915.13	915.66	0.53	ถูกฉีกขาด, ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.4									
12	SMP-LS.12-1 to 2	SUBMERSIBLE PUMP LS.12 No.1	M	LIFT STATION 12	22/8/2024	2025.31	2172.43	147.23	การ 12.ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.12 No.2				7954.71	8115.98	161.37	การ 12.ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.12 No.3				79.05	80.48	1.63	การ 12.ฝังรูหลุม	ใช้งานได้ตามปกติ	
13	SMP-LS.13-1 to 3	SUBMERSIBLE PUMP LS.13 No.2	M	LIFT STATION 13	23/8/2024	12112.7	12127.94	15.24	การ 13.ฝังรูหลุม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.13 No.3				12195.13	13311.88	16.75	การ 13.ฝังรูหลุม	ใช้งานได้ตามปกติ	



ESIE PM WORK REQUEST REPORT IN AUGUST 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	หมายเลขประจำตัว	สถานที่	วันที่ปฏิบัติงาน	บันทึก 18/2024	บันทึก 19/2024	ปริมาณ 72 (ชม.)	ผู้ปฏิบัติงาน	สถานะ	หมายเหตุ
14	SMP-LS.14-1 to 4	SUBMERSIBLE PUMP LS.14 No.1	MQS	LIFT STATION 14	30/8/2024	536.86	544.36	7.5	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.14 No.2				288.97	287.16	6.19	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.14 No.3				275.13	282.7	7.57	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.14 No.4				419.95	427.29	7.34	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
15	SMP-LS.15-1 to 3	SUBMERSIBLE PUMP LS.15 No.1	M	LIFT STATION 15	23/8/2024	3495.95	3531.22	36.27	การดูแลเครื่องจักร	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.15 No.2				4859.3	4914.54	55.24	การดูแลเครื่องจักร	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.15 No.3				4293.67	4348.82	46.83	การดูแลเครื่องจักร	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.15 No.4				1091.63	1109.86	18.23	การดูแลเครื่องจักร	ใช้งานได้ตามปกติ	
16	SMP-LS.16-1 to 1	SUBMERSIBLE PUMP LS.16 No.1	M	LIFT STATION 16	23/8/2024	1088.67	1106.62	17.95	การดูแลเครื่องจักร	ใช้งานได้ตามปกติ	
17	1A-1	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	2851.97	3366.75	534.78	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
18	1A-2	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	2084.76	2537.34	442.68	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
19	1A-3	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	4794.61	5141.47	436.86	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	ตรวจสอบเครื่องจักร No. 1A3 โดย วิศวกร WHAID-ENGINE-WWTP-2024- 0808) เสร็จเรียบร้อยแล้ว 8.8.2567
20	1A-4	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	232.44	166.57	534.13	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
21	1A-5	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	1774.94	1864.01	91.07	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
22	1A-6	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	1965.51	2492.72	527.21	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
23	2A-1	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	8258.65	8624.36	373.61	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
24	2A-2	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	8747.57	9162.63	415.06	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
25	2A-3	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	7338.29	7584.45	246.16	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
26	2A-4	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	4232.58	4588.68	276.1	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
27	2A-5	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	2935.16	3244.39	309.23	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
28	2A-6	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	1615.59	2025.04	409.45	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
29	2A1	SURFACE AERATOR (WWTP)	M	WWTP - 1	28/8/2024	17594.43	17594.43	0	ดูอาการเครื่องจักร	ไม่ได้รับแจ้ง	
30	1A-1	SURFACE AERATOR	M	WWTP - 2	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
31	1A-2	SURFACE AERATOR	M	WWTP - 2	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
32	1A-3	SURFACE AERATOR	M	WWTP - 2	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
33	1A-4	SURFACE AERATOR	M	WWTP - 2	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	



ESIE PM WORK REQUEST REPORT IN AUGUST 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	หมายเลขประจำตัว	สถานที่	วันที่ปฏิบัติงาน	บันทึก 18/2024	บันทึก 19/2024	ปริมาณ 72 (ชม.)	ผู้ปฏิบัติงาน	สถานะ	หมายเหตุ
34	2A-1	SURFACE AERATOR	M	WWTP - 2	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	ตรวจสอบเครื่องจักร No. 2A1 โดย วิศวกร WHAID-ENGINE-WWTP-2024- 0808) เสร็จเรียบร้อยแล้ว 8.8.2567
35	2A-2	SURFACE AERATOR	M	WWTP - 2	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
36	SMP-COD-1	SUBMERSIBLE PUMP	MQS	COD ONLINE	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
37	SMP-COD-2	SUBMERSIBLE PUMP	MQS	COD ONLINE	28/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
38	MCC-PONDS	MCC	M.Y	PONDS	22/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	ไม่ได้รับแจ้งผู้ปฏิบัติงานโดย วิศวกร (LEVEL 5 HOURS) มีวิศวกร ควบคุมดูแลเครื่องจักร No. 2 MCC WHAID-ENGINE-PONDS-2024- 0808)
39	P1	RAW WATER PUMP (PONDS)	M	POND-5	22/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ไม่ได้รับแจ้ง	
40	P2	RAW WATER PUMP (PONDS)	M	POND-5	22/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ไม่ได้รับแจ้ง	
41	P3	RAW WATER PUMP (PONDS)	M	POND-5	22/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ไม่ได้รับแจ้ง	
42	P4	RAW WATER PUMP (PONDS)	M	POND-5	22/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ไม่ได้รับแจ้ง	
43	P5	RAW WATER PUMP (PONDS)	M	POND-5	22/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
44	RP1	REUSED WATER PUMP	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
45	RP2	REUSED WATER PUMP	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
46	DP.1A	PAC FEED PUMP	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
47	DP.1B	PAC FEED PUMP	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
48	MX1	PAC MIXER PUMP	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
49	DP.2	CHLORINE FEED PUMP	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
50	SLM-1	SLOW MIXER	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
51	SLM-2	SLOW MIXER	MQS	REUSE PLANT	24/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	
52	SMP/J1	SUBMERSIBLE PUMP	M	PLAZA 2	26/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	ตรวจสอบเครื่องจักร No. 1 โดย วิศวกร WHAID-ENGINE-PLZ-2024- 0801)
53	SMP/J2	SUBMERSIBLE PUMP	M	PLAZA 2	26/8/2024	N/A	N/A	N/A	ดูอาการเครื่องจักร	ใช้งานได้ตามปกติ	



ESIE PM WORK REQUEST REPORT IN AUGUST 2024

ลำดับ	รายการงาน	ชื่อเครื่องจักร	ขนาดงานประจำ	สถานที่	วันที่ปฏิบัติงาน	วันที่ 18/8/2024	วันที่ 19/8/2024	วันเสาร์	ผู้ปฏิบัติงาน	สถานะ	หมายเหตุ
54	SMP-2/1	SUBMERSIBLE PUMP	M	PLAZA 2	26/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	ข้อมูลเครื่องจักรและสถานะการใช้งาน 18/08/2024-20/08/2024 18/08/2024-20/08/2024
55	SMP-2/2	SUBMERSIBLE PUMP	M	PLAZA 2	26/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
56	AB-1	AIR BLOWER	M	PLAZA 2	26/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
57	AB-2	AIR BLOWER	M	PLAZA 2	26/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
58	SA-1	AERATOR	MQ	RESIDENT	23/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
59	SA-2	AERATOR	MQ	RESIDENT	23/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
60	BP-1	BOOSTER PUMP RESIDENT	MQ	RESIDENT	23/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
61	BP-2	BOOSTER PUMP RESIDENT	MQ	RESIDENT	23/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
62	EW-1	ENGINE WATER PUMP	M	ENGINE WATER PUMP	26/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
63	EW-2	ENGINE WATER PUMP	M	ENGINE WATER PUMP	26/8/2024	N/A	N/A	N/A	ดูข้อมูลผู้ปฏิบัติงาน	ใช้งานได้ตามปกติ	
64											
65											



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 SEPTEMBER - 30 SEPTEMBER 2024

ลำดับ	ชื่อ-นามสกุล	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	หมายเหตุ
1	นายอัฐวิทย์ ทำหิณกอง	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	063-0855577
2	นายอรรถวิทย์ รัตนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	088-0807549
3	นายอรรถวิทย์ รัตนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	099-2472512

ข้อกำหนดผู้ Stand by on call

- ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้รับรายชื่อ Stand by แต่ไม่มา Stand by ให้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้

นายอัฐวิทย์ ทำหิณกอง _____
นายอรรถวิทย์ รัตนพันธ์ _____
นายอรรถวิทย์ รัตนพันธ์ _____



MONTHLY REPORT FOR SEPTEMBER 2024

M&E Preventive Maintenance
WHA Logistics Building Maintenance



AT

EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

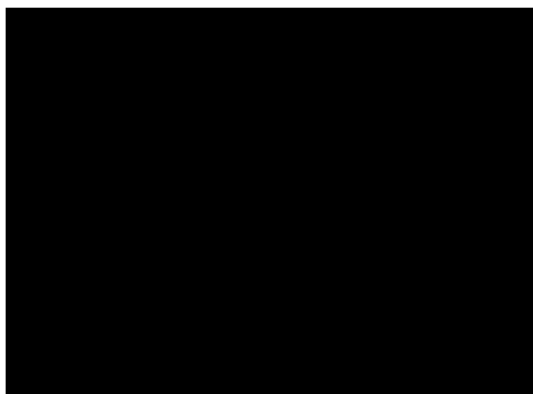
BY



SIAMRAJATHANEE
PUBLIC COMPANY LIMITED

SIAMRAJATHANEE

Report to :



Reported by:



TABLE OF CONTENTS.

1. สรุปผลการบำรุงรักษา (Maintenance Overview)	3
2. สรุปเครื่องจักรที่มีปัญหา (Abnormalities)	4
2.1 รายการเครื่องจักรเสียหายหรือชำรุดและได้ทำการซ่อมเสร็จแล้ว	4
2.2 รายการเครื่องจักรเสียหายหรือชำรุดที่ยังซ่อมไม่เสร็จ	6
3. งานปรับปรุง (Proposed Improvements Review)	7
3.1 การเสนอราคาเพื่ออนุมัติในเดือนนี้	7
3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้	7
3.3 ข้อเสนอแนะจากผู้ทำงาน	7
4. Key Performance Index (KPI)	8
4.1 Perform of Breakdown Recode For Each Group of Equipment	8
4.2 Spare - Part And Consumable From Customer Store	8
5. ภาคผนวก	
MONTHLY PLAN FOR STAND BY ON CALL ON SEPTEMBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN SEPTEMBER 2024	
MONTHLY FOR STAND BY ON CALL ON SEPTEMBER 2024	
PREVENTIVE MAINTENANCE WORK REQUEST REPORT IN SEPTEMBER 2024	
MONTHLY PLAN FOR STAND BY ON CALL ON OCTOBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN OCTOBER 2024	



1. สรุปผลการตรวจเช็คและซ่อมบำรุงรักษา (Maintenance Overview)

งานบริการบำรุงรักษาเชิงป้องกันในเดือนที่ผ่านมา สามารถสรุปได้ดังนี้

เครื่องจักร (Equipment Group)	จำนวนรวม (Qty)	ประเภทของการปฏิบัติงาน					
		แผนการตรวจสอบ (P.M)		ความผิดปกติ (C.M)		เสีย Breakdown	
		วางแผน Planned	งานที่ทำได้ Actual	พบงาน Found	ซ่อมเสร็จ Fixed	พบงาน Found	ซ่อมเสร็จ Fixed
1. Motor & pump							
-SUBMERSIBLE PUMP (LIFT STATION)□	60	60	60	3	-	3	-
-SUREFACE AERATOR (WWTP-1)	13	13	13	-	-	-	-
-SUREFACE AERATOR (WWTP-2)	6	6	6	-	-	-	-
-SUBMERSIBLE PUMP (COD ONLINE)	2	2	2	-	-	-	-
-RAW WATER PUMP (POND.5)	5	5	5	-	-	-	-
-REUSED WATER PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC FEED PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC MIXER PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-CHLORINE FEED PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-SLOW MIXER (REUSE PLANT)	2	2	2	-	-	-	-
-SUBMERSIBLE PUMP (PLAZA 2)	4	4	4	1	1	1	1
-AIR BLOWER (PLAZA 2)	2	2	2	-	-	-	-
-AERATOR (RESIDENT)	2	2	2	-	-	-	-
-BOOSTER PUMP (RESIDENT)	2	2	2	-	-	-	-
2. ENGINE WATER PUMP							
-ENGINE WATER PUMP	2	2	2	-	-	-	-
3. Power Supply and Control System							
- MCC (POND.5)	1	1	1	1	-	1	-
4. Other requested							
- Other requested	-	-	-	-	-	-	-



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipment break down and was recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
1	-WHAID-ESIE-ESIE-PLZ2-SMP1-I-MOT	PLAZA 2-SMP1-I	-ขดลวดมอเตอร์ไหม้ลง -กราวด์ไม่สามารถใช้งานได้ WHAID-ESIE-ESIE-PLZ2-2024-00021	- พันมอเตอร์ขดลวดใหม่ 200 0 อกา HITACHI AMW-XV - เปลี่ยนเบรจใหม่ No.6203-2Z/C3- - เปลี่ยนเบรจใหม่ No.6204-2Z/C3- - Replace Mechanical Seal Brand :Calpoda 15-30-30 - Mobil Hydraulic No.68 Pennzoi - เปลี่ยนโอริง - เปลี่ยนสายไฟใหม่ 1.5 Sq. เสร็จเรียบร้อยแล้ววันที่ 5 ก.ย. 2024
2				
3				
4				
5				



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.2 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมไปแล้วเสร็จ(The following equipment break down and was **NOT** recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	เหตุผลที่ไม่ได้ซ่อม Reason NOT Fixed	แผนงานที่ต้องทำ Plan action
1	-WHAID-ESIE- ESIE-POND5- MCC-ETE	ESIE-POND5	-ไม่ได้ติดตั้งอุปกรณ์ สวิตช์ ถูกถอดไฟฟ้า (LEVEL Switch) ซึ่งคิดการทำงานของ ปั๊มสูบน้ำจรมชาติ 3 เครื่อง WHAID-ESIE-ESIE- POND5-2024-00003	อยู่ระหว่างเสนอราคา	นักสูบน้ำรับเหมาเข้า มาซ่อมแซมและติดตั้ง
2	WHAID-ESIE- ESIE-LS-1- SMP2-MOT	LS-1-SMP2	ชุด Mechanical Seal , ชุด Bearing ด้านหน้าและด้านหลัง , ชุด O-ring ชำรุดเสียหาย และใบพัดปั๊มสึกเสื่อมสภาพ WHAID-ESIE-ESIE-LS- 2024-00016	อยู่ระหว่างเสนอราคา	นักสูบน้ำรับเหมาเข้า มาซ่อมแซมและติดตั้ง
3	WHAID-ESIE- ESIE-LS-1- SMP1-GUIR	LS-1-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 1 เสื่อมสภาพและชุดช่วยชำรุด เสียหาย WHAID-ESIE-ESIE-LS- 2024-00017	อยู่ระหว่างเสนอราคา	นักสูบน้ำรับเหมาเข้า มาซ่อมแซมและติดตั้ง
4	WHAID-ESIE- ESIE-LS-6- SMP1-GUIR	LS-6-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 6 เสื่อมสภาพและชุดช่วยชำรุด เสียหาย WHAID-ESIE-ESIE-LS- 2024-00018	อยู่ระหว่างเสนอราคา	นักสูบน้ำรับเหมาเข้า มาซ่อมแซมและติดตั้ง
5					



3. การปรับปรุง (Proposed Improvements Review)

3.1 การนำเสนอราคาซึ่งออกอนุมัติในเดือนนี้ ดังนี้ (Past month's Quotation waiting for decision)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.2 การเสนอราคาที่ยังรออนุมัติ ในเดือนนี้ (New Quotation during this month)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.3 ข้อเสนอแนะจากผู้ทำงาน (Recommendation)

ลำดับที่	อุปกรณ์ / สถานที่	ความเสียหายที่พบ	แนวทางการปรับปรุง	Status



4.1 Percentage of Breakdown Record for each group equipment ในเดือนที่ผ่านมาสามารถสรุปได้ดังนี้

4.2 อะไหล่และอุปกรณ์สิ้นเปลืองที่เบิกจากลูกค้า (Spare-Part and consumable from customer store) เพื่อใช้งานซ่อมบำรุง

NO.	Designation	Qty.	Remark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Signature :⁹



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 SEPTEMBER - 30 SEPTEMBER 2024

ลำดับ	ชื่อ-นามสกุล	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	หมายเลข
1	นายวิชาญ ทรัพย์ทอง	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	063-0855577
2	นายสุวิทย์ วัฒนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	088-0807549
3	นายสุวิทย์ วัฒนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	099-2472512

ข้อกำหนดผู้ Stand by on call

- ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้รายชื่อ Stand by แต่ไม่ตามารถ Stand by ได้จะส่งข้อมูลไปทางวิทยุที่บริษัทกำหนดไว้



ESIE MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN AND ACTUAL PLAN ON SEPTEMBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit

วันที่ (Date) :30/09/2024



Monthly Preventive Maintenance Schedule Plan September 2024

CUSTOMER : EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

Project Site : ESSE

Item	Equipment name	Tag no.	Qty.	Frequency	Team	Pub	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1.2	SURFCE ABRATOR	SWP-5.14 to 4	4	M.O.S.Y	Team-1	W																					
1.3	SURFCE ABRATOR	SWP-5.15 to 4	4	M.O.S.Y	Team-1	W																					
1.4	SURFCE ABRATOR	SWP-5.16 to 4	4	M.O.S.Y	Team-1	W																					
1.5	SURFCE ABRATOR	SWP-5.17 to 4	4	M.O.S.Y	Team-1	W																					
1.6	SURFCE ABRATOR	SWP-5.18 to 3	3	M.O.S.Y	Team-1	W																					
1.7	SURFCE ABRATOR	SWP-5.19 to 4	4	M.O.S.Y	Team-1	W																					
1.8	SURFCE ABRATOR	SWP-5.20 to 4	4	M.O.S.Y	Team-1	W																					
1.9	SURFCE ABRATOR	SWP-5.21 to 3	3	M.O.S.Y	Team-1	W																					
1.10	SURFCE ABRATOR	SWP-5.22 to 4	4	M.O.S.Y	Team-1	W																					
1.11	SURFCE ABRATOR	SWP-5.23 to 4	4	M.O.S.Y	Team-1	W																					
1.12	SURFCE ABRATOR	SWP-5.24 to 4	4	M.O.S.Y	Team-1	W																					
1.13	SURFCE ABRATOR	SWP-5.25 to 3	3	M.O.S.Y	Team-1	W																					
1.14	SURFCE ABRATOR	SWP-5.26 to 3	3	M.O.S.Y	Team-1	W																					
1.15	SURFCE ABRATOR	SWP-5.27 to 4	4	M.O.S.Y	Team-1	W																					
1.16	SURFCE ABRATOR	SWP-5.28 to 3	3	M.O.S.Y	Team-1	W																					
1.17	SURFCE ABRATOR	SWP-5.29 to 3	3	M.O.S.Y	Team-1	W																					
1.18	SURFCE ABRATOR	SWP-5.30 to 3	3	M.O.S.Y	Team-1	W																					
1.19	SURFCE ABRATOR	SWP-5.31 to 3	3	M.O.S.Y	Team-1	W																					
1.20	SURFCE ABRATOR	SWP-5.32 to 3	3	M.O.S.Y	Team-1	W																					
1.21	SURFCE ABRATOR	SWP-5.33 to 3	3	M.O.S.Y	Team-1	W																					
1.22	SURFCE ABRATOR	SWP-5.34 to 3	3	M.O.S.Y	Team-1	W																					
1.23	SURFCE ABRATOR	SWP-5.35 to 3	3	M.O.S.Y	Team-1	W																					
1.24	SURFCE ABRATOR	SWP-5.36 to 3	3	M.O.S.Y	Team-1	W																					
1.25	SURFCE ABRATOR	SWP-5.37 to 3	3	M.O.S.Y	Team-1	W																					
1.26	SURFCE ABRATOR	SWP-5.38 to 3	3	M.O.S.Y	Team-1	W																					
1.27	SURFCE ABRATOR	SWP-5.39 to 3	3	M.O.S.Y	Team-1	W																					
1.28	SURFCE ABRATOR	SWP-5.40 to 3	3	M.O.S.Y	Team-1	W																					
1.29	SURFCE ABRATOR	SWP-5.41 to 3	3	M.O.S.Y	Team-1	W																					
1.30	SURFCE ABRATOR	SWP-5.42 to 3	3	M.O.S.Y	Team-1	W																					
1.31	SURFCE ABRATOR	SWP-5.43 to 3	3	M.O.S.Y	Team-1	W																					
1.32	SURFCE ABRATOR	SWP-5.44 to 3	3	M.O.S.Y	Team-1	W																					
1.33	SURFCE ABRATOR	SWP-5.45 to 3	3	M.O.S.Y	Team-1	W																					
1.34	SURFCE ABRATOR	SWP-5.46 to 3	3	M.O.S.Y	Team-1	W																					
1.35	SURFCE ABRATOR	SWP-5.47 to 3	3	M.O.S.Y	Team-1	W																					
1.36	SURFCE ABRATOR	SWP-5.48 to 3	3	M.O.S.Y	Team-1	W																					
1.37	SURFCE ABRATOR	SWP-5.49 to 3	3	M.O.S.Y	Team-1	W																					
1.38	SURFCE ABRATOR	SWP-5.50 to 3	3	M.O.S.Y	Team-1	W																					
1.39	SURFCE ABRATOR	SWP-5.51 to 3	3	M.O.S.Y	Team-1	W																					
1.40	SURFCE ABRATOR	SWP-5.52 to 3	3	M.O.S.Y	Team-1	W																					
1.41	SURFCE ABRATOR	SWP-5.53 to 3	3	M.O.S.Y	Team-1	W																					
1.42	SURFCE ABRATOR	SWP-5.54 to 3	3	M.O.S.Y	Team-1	W																					
1.43	SURFCE ABRATOR	SWP-5.55 to 3	3	M.O.S.Y	Team-1	W																					
1.44	SURFCE ABRATOR	SWP-5.56 to 3	3	M.O.S.Y	Team-1	W																					
1.45	SURFCE ABRATOR	SWP-5.57 to 3	3	M.O.S.Y	Team-1	W																					
1.46	SURFCE ABRATOR	SWP-5.58 to 3	3	M.O.S.Y	Team-1	W																					
1.47	SURFCE ABRATOR	SWP-5.59 to 3	3	M.O.S.Y	Team-1	W																					
1.48	SURFCE ABRATOR	SWP-5.60 to 3	3	M.O.S.Y	Team-1	W																					
1.49	SURFCE ABRATOR	SWP-5.61 to 3	3	M.O.S.Y	Team-1	W																					
1.50	SURFCE ABRATOR	SWP-5.62 to 3	3	M.O.S.Y	Team-1	W																					
1.51	SURFCE ABRATOR	SWP-5.63 to 3	3	M.O.S.Y	Team-1	W																					
1.52	SURFCE ABRATOR	SWP-5.64 to 3	3	M.O.S.Y	Team-1	W																					
1.53	SURFCE ABRATOR	SWP-5.65 to 3	3	M.O.S.Y	Team-1	W																					
1.54	SURFCE ABRATOR	SWP-5.66 to 3	3	M.O.S.Y	Team-1	W																					
1.55	SURFCE ABRATOR	SWP-5.67 to 3	3	M.O.S.Y	Team-1	W																					
1.56	SURFCE ABRATOR	SWP-5.68 to 3	3	M.O.S.Y	Team-1	W																					
1.57	SURFCE ABRATOR	SWP-5.69 to 3	3	M.O.S.Y	Team-1	W																					
1.58	SURFCE ABRATOR	SWP-5.70 to 3	3	M.O.S.Y	Team-1	W																					
1.59	SURFCE ABRATOR	SWP-5.71 to 3	3	M.O.S.Y	Team-1	W																					
1.60	SURFCE ABRATOR	SWP-5.72 to 3	3	M.O.S.Y	Team-1	W																					
1.61	SURFCE ABRATOR	SWP-5.73 to 3	3	M.O.S.Y	Team-1	W																					
1.62	SURFCE ABRATOR	SWP-5.74 to 3	3	M.O.S.Y	Team-1	W																					
1.63	SURFCE ABRATOR	SWP-5.75 to 3	3	M.O.S.Y	Team-1	W																					
1.64	SURFCE ABRATOR	SWP-5.76 to 3	3	M.O.S.Y	Team-1	W																					
1.65	SURFCE ABRATOR	SWP-5.77 to 3	3	M.O.S.Y	Team-1	W																					
1.66	SURFCE ABRATOR	SWP-5.78 to 3	3	M.O.S.Y	Team-1	W																					
1.67	SURFCE ABRATOR	SWP-5.79 to 3	3	M.O.S.Y	Team-1	W																					
1.68	SURFCE ABRATOR	SWP-5.80 to 3	3	M.O.S.Y	Team-1	W																					
1.69	SURFCE ABRATOR	SWP-5.81 to 3	3	M.O.S.Y	Team-1	W																					
1.70	SURFCE ABRATOR	SWP-5.82 to 3	3	M.O.S.Y	Team-1	W																					
1.71	SURFCE ABRATOR	SWP-5.83 to 3	3	M.O.S.Y	Team-1	W																					
1.72	SURFCE ABRATOR	SWP-5.84 to 3	3	M.O.S.Y	Team-1	W																					
1.73	SURFCE ABRATOR	SWP-5.85 to 3	3	M.O.S.Y	Team-1	W																					
1.74	SURFCE ABRATOR	SWP-5.86 to 3	3	M.O.S.Y	Team-1	W																					
1.75	SURFCE ABRATOR	SWP-5.87 to 3	3	M.O.S.Y	Team-1	W																					
1.76	SURFCE ABRATOR	SWP-5.88 to 3	3	M.O.S.Y	Team-1	W																					
1.77	SURFCE ABRATOR	SWP-5.89 to 3	3	M.O.S.Y	Team-1	W																					
1.78	SURFCE ABRATOR	SWP-5.90 to 3	3	M.O.S.Y	Team-1	W																					
1.79	SURFCE ABRATOR	SWP-5.91 to 3	3	M.O.S.Y	Team-1	W																					
1.80	SURFCE ABRATOR	SWP-5.92 to 3	3	M.O.S.Y	Team-1	W																					



MONTHLY PLAN FOR STAND BY ON CALL

วันที่	เวลา	รายชื่อผู้ปฏิบัติงาน	รายชื่อพนักงานเข้า สับนินงาน	เครื่องจักร	สถานที่	รายละเอียด
1 กันยายน 2567	13.50 น.	คุณเสน่ห์ เพ็งแสงทอง	นายสุทธิพงษ์ สิมโน นายศราวุธ อรัญมิตร	Submersible Pump,Float Swicth	Liftstation 4	เกิดสัญญาณ Alarm ที่ LS-4 เนื่องจาก สูบน้ำไม่ทัน น้ำล้นออกจากบ่อ
1 กันยายน 2567	13.50 น.	คุณเสน่ห์ เพ็งแสงทอง	นายสุทธิพงษ์ สิมโน นายศราวุธ อรัญมิตร	Submersible Pump,Float Swicth	Liftstation 8	เกิดสัญญาณ Alarm ที่ LS-8 เนื่องจาก สูบน้ำไม่ทัน น้ำล้นออกจากบ่อ



ESIE PM WORK REQUEST REPORT ON SEPTEMBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit
วันที่ (Date) : 30/09/2024



ESIE PM WORK REQUEST REPORT IN SEPTEMBER 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	ขนาด/รุ่น/ยี่ห้อ	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/9/2024	วันที่ 1/10/2024	รวม (ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
1	SMP-LS.1-1 to 4	SUBMERSIBLE PUMP LS.1 No.1	M	LIFT STATION 1	18/9/2024	31108.04	31269.13	161.09	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	Submersible Pump No.1, No.2, No.3 & No.4 at Lift Station 1 ได้รับการซ่อมแซมสายเคเบิลเรียบร้อยแล้ว WTAJD-ESIE-ESIE-LS-2024-00015
		SUBMERSIBLE PUMP LS.1 No.2				21202.57	21343.66	161.09	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	Submersible Pump No.1, No.2, No.3 & No.4 at Lift Station 1 ได้รับการซ่อมแซมสายเคเบิลเรียบร้อยแล้ว WTAJD-ESIE-ESIE-LS-2024-00016
		SUBMERSIBLE PUMP LS.1 No.3				20366.91	20622.3	456.39	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.1 No.4				44267.18	44733.58	456.4	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
2	SMP-LS.2-1 to 4	SUBMERSIBLE PUMP LS.2 No.1	M	LIFT STATION 2	18/9/2024	11059.99	11492.21	432.22	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.2 No.2				16154.06	16182.10	28.04	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.2 No.3				39739.88	40133.37	413.49	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.2 No.4				15212.18	15691.73	479.55	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
3	SMP-LS.3-1 to 4	SUBMERSIBLE PUMP LS.3 No.1	M,Q,S	LIFT STATION 3	18/9/2024	31108.94	31356.35	147.41	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.2				21327.1	21317.52	80.41	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.3				22057.12	22108.36	51.24	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.3 No.4				57308.72	57342.90	34.18	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
4	SMP-LS.4-1 to 4	SUBMERSIBLE PUMP LS.4 No.1	M	LIFT STATION 4	18/9/2024	36548.33	37191.57	643.24	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.4 No.2				81607.47	82251.54	643.87	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.4 No.3				80119.26	80863.14	643.88	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.4 No.4				72926.13	73568.84	642.71	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
5	SMP-LS.5-1 to 3	SUBMERSIBLE PUMP LS.5 No.1	M	LIFT STATION 5	18/9/2024	26371.74	26305.04	33.30	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.5 No.2				24699.74	24744.57	44.83	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.5 No.3				13707.89	13740.73	33.64	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	



ESIE PM WORK REQUEST REPORT IN SEPTEMBER 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	ขนาด/รุ่น/ยี่ห้อ	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/9/2024	วันที่ 1/10/2024	รวม (ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
6	SMP-LS.6-1 to 4	SUBMERSIBLE PUMP LS.6 No.1	M,Q	LIFT STATION 6	18/9/2024	28115.30	28388.95	165.65	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	Submersible Pump No.1, No.2, No.3 & No.4 at Lift Station 6 ได้รับการซ่อมแซมสายเคเบิลเรียบร้อยแล้ว WTAJD-ESIE-ESIE-LS-2024-00018
		SUBMERSIBLE PUMP LS.6 No.2				63006.89	63192.41	185.52	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.6 No.3				45802.01	46016.4	214.37	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.6 No.4				44045.66	44313.56	267.9	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
7	SMP-LS.7-1 to 5	SUBMERSIBLE PUMP LS.7 No.1	M	LIFT STATION 7	19/9/2024	N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	อยู่ระหว่างการซ่อมแซม GLEDE
		SUBMERSIBLE PUMP LS.7 No.2				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.3				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.4				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.5				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.6				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.7				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.7 No.8				N/A	N/A	N/A	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
8	SMP-LS.8-1 to 4	SUBMERSIBLE PUMP LS.8 No.1	M	LIFT STATION 8	19/9/2024	16330.15	16358.87	26.72	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.8 No.2				15040.33	15081.03	40.7	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.8 No.3				19054.82	19110.49	155.87	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.8 No.4				18637.77	18519.33	181.56	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
9	SMP-LS.9-1 to 3	SUBMERSIBLE PUMP LS.9 No.1	M,Q,S,Y	LIFT STATION 9	19/9/2024	25576.41	25899.71	323.3	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.9 No.2				35035.71	35387.06	351.35	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.9 No.3				19827.44	19982.97	155.53	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.10 No.1				8636.57	8909.07	272.5	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
10	SMP-LS.10-1 to 4	SUBMERSIBLE PUMP LS.10 No.2	M	LIFT STATION 10	19/9/2024	8512.83	8656.54	144.53	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.10 No.3				8297.45	8391.82	94.37	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.10 No.4				9208.65	9294.16	93.51	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.1				3119.62	3129.66	10.04	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
11	SMP-LS.11-1 to 4	SUBMERSIBLE PUMP LS.11 No.2	M	LIFT STATION 11	19/9/2024	1087.35	1093.54	6.19	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.3				1081.21	1087.77	6.56	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.4				915.66	921.7	6.04	ถูกฉีกฉนวนสายเคเบิล	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LS.11 No.4									



ESIE PM WORK REQUEST REPORT IN SEPTEMBER 2024

ลำดับที่	รายการขอซ่อม	ชื่อเครื่องจักร	เลขหมายประจำตัว	สถานที่	วันที่ปฏิบัติงาน	บันทึก 1/9/2024	บันทึก 11/9/2024	รวม(ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
12	SMP-LSJ3-1 to 2	SUBMERSIBLE PUMP LSJ3 No.1	MQ	LIFT STATION 13	19/9/2024	2172.43	2270.61	98.18	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ3 No.2				8115.98	8222.83	106.85	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
13	SMP-LSJ3-1 to 2	SUBMERSIBLE PUMP LSJ3 No.1	M	LIFT STATION 13	20/9/2024	80.48	80.48	0	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ3 No.2				12127.94	12146.72	18.78	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
14	SMP-LSJ4-1 to 4	SUBMERSIBLE PUMP LSJ4 No.1	M	LIFT STATION 14	28/9/2024	13311.88	13331.91	20.03	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ4 No.2				544.36	547.89	3.53	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ4 No.3				287.16	290.17	3.01	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ4 No.4				283.7	285.75	2.05	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ4 No.5				427.29	429.98	2.69	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
15	SMP-LSJ5-1 to 3	SUBMERSIBLE PUMP LSJ5 No.1	M,Q,S	LIFT STATION 15	20/9/2024	3531.32	3559.81	28.59	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ5 No.2				4914.54	4959.89	44.55	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ5 No.3				4540.52	4579.03	38.51	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
16	SMP-LSJ6-1 to 2	SUBMERSIBLE PUMP LSJ6 No.1	M	LIFT STATION 16	20/9/2024	1199.86	1127.38	17.52	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
		SUBMERSIBLE PUMP LSJ6 No.2				1106.82	1124.20	17.58	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
17	1A-1	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	3366.75	3868.45	501.9	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
18	1A-2	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	2527.24	3287.95	760.71	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
19	1A-3	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	5141.47	5640.93	499.46	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
20	1A-4	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	766.57	1268.07	501.5	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
21	1A-5	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	1866.91	2156.61	290.6	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
22	1A-6	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	2492.72	2991.67	498.95	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
23	2A-1	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	8624.26	8971.94	347.68	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
24	2A-2	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	9162.63	9549.99	387.36	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
25	2A-3	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	7584.45	8045.37	460.92	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
26	2A-4	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	4208.68	4578.52	69.84	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
27	2A-5	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	28/9/2024	3244.39	3440.94	196.55	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
28	2A-6	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	2025.04	2412.51	387.47	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
29	3A1	SURFACE AERATOR (WWTP)	MQ	WWTP - 1	20/9/2024	17594.43	17594.43	0	ดำเนินการซ่อมแซม	ยังไม่ดำเนินการ	



ESIE PM WORK REQUEST REPORT IN SEPTEMBER 2024

ลำดับที่	รายการขอซ่อม	ชื่อเครื่องจักร	เลขหมายประจำตัว	สถานที่	วันที่ปฏิบัติงาน	บันทึก 1/9/2024	บันทึก 11/9/2024	รวม(ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
30	1A-1	SURFACE AERATOR	M	WWTP - 2	20/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
31	1A-2	SURFACE AERATOR	M	WWTP - 2	20/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
32	1A-3	SURFACE AERATOR	M	WWTP - 2	20/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
33	1A-4	SURFACE AERATOR	M	WWTP - 2	20/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
34	2A-1	SURFACE AERATOR	M	WWTP - 2	20/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
35	2A-2	SURFACE AERATOR	M	WWTP - 2	20/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
36	SMP-COD-1	SUBMERSIBLE PUMP	M	COD ONLINE	11/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
37	SMP-COD-2	SUBMERSIBLE PUMP	M	COD ONLINE	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
38	MCC-POND5	MCC	M	POND-5	19/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	ใบแจ้งซ่อมอุปกรณ์ 01/09/2024 พื้นที่ (LEVEL 5) มี 5 เครื่อง ดำเนินการซ่อมแซมตามข้อ 3 ข้อ 4 WATER-ESIE-ESIE-POND5-2024- 1003
39	P1	RAW WATER PUMP (POND-5)	MQ	POND-5	19/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ยังไม่ดำเนินการ	ใบแจ้งซ่อม
40	P2	RAW WATER PUMP (POND-5)	MQ	POND-5	19/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ยังไม่ดำเนินการ	ใบแจ้งซ่อม
41	P3	RAW WATER PUMP (POND-5)	MQ	POND-5	19/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ยังไม่ดำเนินการ	ใบแจ้งซ่อม
42	P4	RAW WATER PUMP (POND-5)	MQ	POND-5	19/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
43	P5	RAW WATER PUMP (POND-5)	MQ	POND-5	19/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
44	RP1	REUSED WATER PUMP	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
45	RP2	REUSED WATER PUMP	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
46	DP1/1	PAC FEED PUMP	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
47	DP1/2	PAC FEED PUMP	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
48	MX1	PAC MIXER PUMP	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
49	DP2	CHLORINE FEED PUMP	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
50	SLM-1	SLOW MIXER	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	
51	SLM-2	SLOW MIXER	M	REUSE PLANT	21/9/2024	N/A	N/A	N/A	ดำเนินการซ่อมแซม	ใช้งานได้ตามปกติ	



ESIE PM WORK REQUEST REPORT IN SEPTEMBER 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	หมายเลขประจำ	สถานที่	วันที่ปฏิบัติงาน	บันทึก 1/9/2024	บันทึก 1/10/2024	วาม(ชม.)	ผู้ปฏิบัติงาน	สถานะ	หมายเหตุ
52	SMP-1/1	SUBMERSIBLE PUMP	M	PLAZA 2	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	จากข้อมูลการปฏิบัติงาน 5 ตุลาคม 2567 ไม่พบการแจ้งเตือน
53	SMP-1/2	SUBMERSIBLE PUMP	M	PLAZA 2	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
54	SMP-2/1	SUBMERSIBLE PUMP	M	PLAZA 2	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
55	SMP-2/2	SUBMERSIBLE PUMP	M	PLAZA 2	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
56	AB-1	AIR BLOWER	M	PLAZA 2	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
57	AB-2	AIR BLOWER	M	PLAZA 2	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
58	SA-1	AERATOR	M	RESIDENT	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
59	SA-2	AERATOR	M	RESIDENT	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
60	BP-1	BOOSTER PUMP RESIDENT	M	RESIDENT	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
61	BP-2	BOOSTER PUMP RESIDENT	M	RESIDENT	21/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
62	EW-P-1	ENGINE WATER PUMP	M/Q	ENGINE WATER PUMP	23/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
63	EW-P-2	ENGINE WATER PUMP	M/Q	ENGINE WATER PUMP	23/9/2024	N/A	N/A	N/A	ปฏิบัติงานปกติ	ใช้งานปกติ	
64											
65											



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 OCTOBER - 31 OCTOBER 2024

ลำดับ	ชื่อ-นามสกุล	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	หมายเหตุ
		1	2	3	4	5	7	8	9	10	11	12	14	15	16	17	18	19	21	22	23	24	25	26	28	29	30	31	
1	นายสุวิทย์ รัตนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	088-0807549
2	นายสุวิทย์ รัตนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	099-2472512
3	นายสุวิทย์ รัตนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	063-0855577

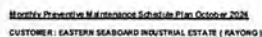
ข้อกำหนดผู้ Stand by on call

- ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถเข้าทำงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้รับรายชื่อ Stand by on call ไม่สามารถ Stand by on call ได้เองต้องแจ้งให้บริษัทกำหนดไว้

นายสุวิทย์ รัตนพันธ์

นายสุวิทย์ รัตนพันธ์

นายสุวิทย์ รัตนพันธ์



Remark : M=Monthly , Q = Quarterly , S=Semi Yearly , Y=Yearly ,W=Weekly

ทีมชุดป่าละเมาะป่า	TEAM 1 (SAMRAJATHANEE)
ทีมชุดป่าไม้เขตรักษาพันธุ์สัตว์ป่า	TEAM 2 (PERFECTMAX)
ทีมชุดป่าไม้เขตรักษาพันธุ์สัตว์ป่า	

Checked By: _____
JEPD

Approved By _____
 Date _____



MONTHLY REPORT FOR OCTOBER 2024

M&E Preventive Maintenance
WHA Logistics Building Maintenance



AT

EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

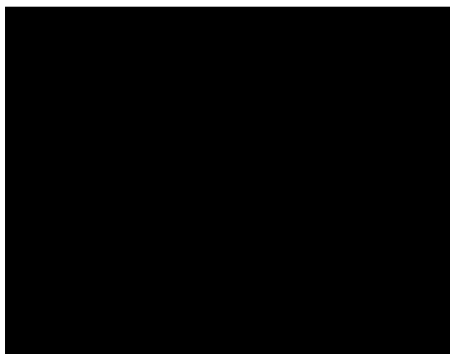
BY



SIAMRAJATHANEE
PUBLIC COMPANY LIMITED

SIAMRAJATHANEE

Report to :



Reported by:



TABLE OF CONTENTS .

1. สรุปผลการบำรุงรักษา (Maintenance Overview)	3
2. สรุปเครื่องจักรที่มีปัญหา (Abnormalities)	4
2.1 รายการเครื่องจักรเสียหายหรือชำรุดและได้ทำการซ่อมเสร็จแล้ว	4
2.2 รายการเครื่องจักรเสียหายหรือชำรุดที่ยังซ่อมไม่เสร็จ	5
3. งานปรับปรุง (Proposed Improvements Review)	6
3.1 การเสนอราคาที่อนุมัติในเดือนนี้	6
3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้	6
3.3 ข้อเสนอแนะจากผู้ทำรายงาน	6
4. Key Performance Index (KPI)	7
4.1 Perform of Breakdown Recode For Each Group of Equipment	7
4.2 Spare - Part And Consumable From Customer Store	7
5. ภาคผนวก	
MONTHLY PLAN FOR STAND BY ON CALL ON OCTOBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN OCTOBER 2024	
MONTHLY FOR STAND BY ON CALL ON OCTOBER 2024	
PREVENTIVE MAINTENANCE WORK REQUEST REPORT IN OCTOBER 2024	
MONTHLY PLAN FOR STAND BY ON CALL ON NOVEMBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN NOVEMBER 2024	



1. สรุปผลการตรวจเช็คและซ่อมบำรุงรักษา (Maintenance Overview)

งานบริการบำรุงรักษาเชิงป้องกันในเดือนที่ผ่านมา สามารถสรุปได้ดังนี้

เครื่องจักร (Equipment Group)	จำนวนรวม (Qty)	ประเภทของการปฏิบัติงาน					
		แผนการตรวจสอบ (P.M)		ความผิดปกติ (C.M)		เสีย Breakdown	
		วางแผน Planned	งานที่ได้ Actual	พบงาน Found	ซ่อม เสีย Fixed	พบงาน Found	ซ่อมเสีย Fixed
1. Motor & pump							
-SUBMERSIBLE PUMP (LIFT STATION)□	60	60	60	3	-	3	-
-SUREFACE AERATOR (WWTP-1)	13	13	13	-	-	-	-
-SUREFACE AERATOR (WWTP-2)	6	6	6	-	-	-	-
-SUBMERSIBLE PUMP (COD ONLINE)	2	2	2	-	-	-	-
-RAW WATER PUMP (POND.5)	5	5	5	-	-	-	-
-REUSED WATER PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC FEED PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC MIXER PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-CHLORINE FEED PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-SLOW MIXER (REUSE PLANT)	2	2	2	-	-	-	-
-SUBMERSIBLE PUMP (PLAZA 2)	4	4	4	-	-	-	-
-AIR BLOWER (PLAZA 2)	2	2	2	-	-	-	-
-AERATOR (RESIDENT)	2	2	2	-	-	-	-
-BOOSTER PUMP (RESIDENT)	2	2	2	-	-	-	-
2. ENGINE WATER PUMP							
-ENGINE WATER PUMP	2	2	2	-	-	-	-
3. Power Supply and Control System							
- MCC (POND.5)	1	1	1	1	1	1	1
4. Other requested							
- Other requested	-	-	-	-	-	-	-



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipment break down and was recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
1	-WHAID-ESIE- ESIE-POND5- MCC-ETE	ESIE-POND5	-ไม่ได้ติดตั้งอุปกรณ์ สวิตช์ ถูกดัดแปลง (LEVEL Switch) ตั้งค่าการทำงานของ ปั๊มสูบน้ำธรรมชาติ 3 เครื่อง WHAID-ESIE-ESIE- POND5-2024-00003	ติดตั้ง สวิตช์ถูกดัดแปลง (LEVEL Switch) ตั้งค่า การทำงานของ ปั๊มสูบน้ำธรรมชาติ 3 เครื่อง ที่ Pond 5 เสร็จเรียบร้อยวันที่ 10 ต.ค. 2024
2				
3				
4				
5				



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.2 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมไม่แล้วเสร็จ(The following equipment break down and was **NOT** recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	เหตุผลที่ไม่ได้ซ่อม Reason NOT Fixed	แผนงานที่ต้องทำ Plan action
1	WHAID-ESIE- ESIE-LS-1- SMP2-MOT	LS-1-SMP2	ชุด Mechanical Seal , ชุด Bearing ด้านหน้าและด้านหลัง , ชุด O-ring ซ้ำชุดเสียหาย และใบพัดปั่นสึกเสื่อมสภาพ WHAID-ESIE-ESIE-LS- 2024-00016	อยู่ระหว่างเสนอราคา	นักผู้รับรับเหมาเข้า มาซ่อมแซมและติดตั้ง
2	WHAID-ESIE- ESIE-LS-1- SMP1-GUIR	LS-1-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 1 เสื่อมสภาพและชุดร่อนชำรุด เสียหาย WHAID-ESIE-ESIE-LS- 2024-00017	อยู่ระหว่างเสนอราคา	นักผู้รับรับเหมาเข้า มาซ่อมแซมและติดตั้ง
3	WHAID-ESIE- ESIE-LS-6- SMP1-GUIR	LS-6-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 6 เสื่อมสภาพและชุดร่อนชำรุด เสียหาย WHAID-ESIE-ESIE-LS- 2024-00018	อยู่ระหว่างเสนอราคา	นักผู้รับรับเหมาเข้า มาซ่อมแซมและติดตั้ง
4					
5					



3. การปรับปรุง (Proposed Improvements Review)

3.1 การนำเสนอราคาซึ่งออกอนุมัติในเดือนนี้ ดังนี้ (Past month's Quotation waiting for decision)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.2 การเสนอราคาที่ยังรออนุมัติ ในเดือนนี้ (New Quotation during this month)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.3 ข้อเสนอแนะจากผู้ทำรายงาน (Recommendation)

ลำดับที่	อุปกรณ์/สถานที่	ความเสียหายที่พบ	แนวทางการปรับปรุง	Status



4. Key Performance Index (KPI)

4.1 Percentage of Breakdown Record for each group equipmentในเดือนที่ผ่านมาสามารถสรุปได้ดังนี้

กลุ่มอุปกรณ์(Equipment Group)	Breakdown Time Unit	Number of Equipment	% Break down of Total Equipment
1. Motor and Pump	3	104	2.88%
2. ENGINE WATER PUMP	0	2	0.00%
3. Power Supply and Control System	0	1	0.00%
4. Other requested	0	0	0.00%

4.2 อะไหล่และอุปกรณ์สิ้นเปลืองที่เบิกจากลูกค้า (Spare-Part and consumable from customer store) เพื่อใช้งานซ่อมบำรุง

ແຕະອຳນາ

NO.	Designation	Qty.	Remark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

>>>>>>>>>> End of Report <<<<<<<<<<<

Service team Siamrajathane

Customer.

Reported by: M

Attention to: Mr.Sanae Pengsaengthong

Signature :

Signature :

**MONTHLY PLAN FOR STAND BY ON CALL****SITE WHA ESIE****1 OCTOBER - 31 OCTOBER 2024**

ลำดับ	ชื่อ-นามสกุล	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	หมายเลข
		1	2	3	4	5	7	8	9	10	11	12	14	15	16	17	18	19	21	22	23	24	25	26	28	29	30	31	
1	นายกรัตนพงษ์ รัตนพันธ์	X	X	X	X	X	X	X	X	X									X	X	X	X	X		X	X	X	X	088-0807549
2	นายสุทธิพงษ์ ติมโน	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X											099-2472512
3	นายณัฐวุฒิ ทาทิหนอง										X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	063-0855577

ข้อกำหนดผู้ Stand by on call

1. ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์

2. ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและ Scope งานของ Site เป็นอย่างดี

3. ผู้มีรายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้

นายหรือ

นายสุทธิ

นายณัฐ

**ESIE MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN
AND ACTUAL PLAN ON OCTOBER 2024**

บันทึกโดย (Record By) : Mr. Anupong Damsanit

วันที่ (Date) : 31/10/2024



Monthly Preventive Maintenance Schedule Plan October 2024

CUSTOMER: EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

Remark : M=Monthly , Q = Quarterly , S= Semi Yearly , Y=Yearly , W=Weekly

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☐ วิทยาลัยเกษตรกรรม
☐ วิทยาลัยเทคนิค

Plan By : _____
(SIA MIRA JATHANE F.)

Checked By : _____
(EPN)

Approved By _____
JMM



**MONTHLY PLAN FOR STAND BY ON CALL
ON OCTOBER 2024**

บันทึกโดย (Record By) : Mr. Anupong Damsanit

วันที่ (Date) : 31/10/2024



MONTHLY PLAN FOR STAND BY ON CALL

วันที่	เวลา	รายชื่อผู้ปฏิบัติงาน	รายชื่อพนักงานเข้า ดำเนินงาน	เครื่องจักร	สถานที่	รายละเอียด



ESIE PM WORK REQUEST REPORT
ON OCTOBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit
วันที่ (Date) : 31/10/2024



ESIE PM WORK REQUEST REPORT IN OCTOBER 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	หมายเลขประจำตัว	สถานี	วันที่ปฏิบัติงาน	บันทึก 1/10/2024	บันทึก 1/11/2024	รวม(พ.ม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
1	SMP-LS.1-1 to 4	SUBMERSIBLE PUMP LS.1 No.1	M,Q	LIFT STATION 1	18/10/2024	31269.13	31437.23	168.11	ตรวจสอบถังพัก	ใช้งานได้ปกติ	Circle Ball Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 1 เมื่อพบการอุดตันของถังพักจึงดำเนินการ WHAID-ESIE-ESIE-LS-1024-00817
		SUBMERSIBLE PUMP LS.1 No.2				21363.66	21531.79	168.13	ตรวจสอบถังพัก	ใช้งานได้ปกติ	ชุด Mechanical Seal , ชุด Bearing ถังพักเดิมชำรุดเสียหาย , ชุด O-ring ถังพักใหม่ และใบพัดปั๊มเดิมชำรุด WHAID-ESIE-ESIE-LS-1024-00816
		SUBMERSIBLE PUMP LS.1 No.3				20823.3	21128.39	305.09	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.1 No.4				44723.58	45176.38	452.8	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
2	SMP-LS.2-1 to 4	SUBMERSIBLE PUMP LS.2 No.1	M	LIFT STATION 2	18/10/2024	11492.31	11803.99	311.78	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.2 No.2				16182.10	16198.56	16.46	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.2 No.3				40153.37	40491.6	345.23	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.2 No.4				15691.73	16125.00	433.27	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
3	SMP-LS.3-1 to 4	SUBMERSIBLE PUMP LS.3 No.1	M	LIFT STATION 3	18/10/2024	51336.35	51475.77	139.42	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.3 No.2				21317.52	21400.56	83.04	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.3 No.3				22108.36	22162.55	54.19	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.3 No.4				57342.90	57379.73	36.83	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
4	SMP-LS.4-1 to 4	SUBMERSIBLE PUMP LS.4 No.1	M,Q,S	LIFT STATION 4	18/10/2024	57191.57	57845.86	654.29	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.4 No.2				82251.34	82904.38	655.04	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.4 No.3				80863.14	81518.18	655.04	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.4 No.4				73568.84	74223.00	654.16	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
5	SMP-LS.5-1 to 3	SUBMERSIBLE PUMP LS.5 No.1	M	LIFT STATION 5	18/10/2024	26305.04	26329.48	24.44	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.5 No.2				24744.57	24784.83	39.46	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.5 No.3				13748.73	13764.34	23.61	ตรวจสอบถังพัก	ใช้งานได้ปกติ	



ESIE PM WORK REQUEST REPORT IN OCTOBER 2024

ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	หมายเลขประจำตัว	สถานี	วันที่ปฏิบัติงาน	บันทึก 1/10/2024	บันทึก 1/11/2024	รวม(พ.ม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
6	SMP-LS.6-1 to 4	SUBMERSIBLE PUMP LS.6 No.1	M	LIFT STATION 6	18/10/2024	28389.95	28500.22	219.27	ตรวจสอบถังพัก	ใช้งานได้ปกติ	Circle Ball Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 6 เมื่อพบการอุดตันของถังพักจึงดำเนินการ WHAID-ESIE-ESIE-LS-1024-00818
		SUBMERSIBLE PUMP LS.6 No.2				63192.41	63276.38	83.97	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.6 No.3				44616.4	46237.97	221.57	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.6 No.4				44313.56	44510.72	197.16	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
7	SMP-LS.7-1 to 5	SUBMERSIBLE PUMP LS.7 No.1	M,Q	LIFT STATION 7	21/10/2024	N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	ผู้ดำเนินการตรวจสอบพบ GUIDE
		SUBMERSIBLE PUMP LS.7 No.2				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.3				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.4				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	ผู้ดำเนินการตรวจสอบพบ GUIDE
		SUBMERSIBLE PUMP LS.7 No.5				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.6				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.7				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.7 No.8				N/A	N/A	N/A	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
8	SMP-LS.8-1 to 4	SUBMERSIBLE PUMP LS.8 No.1	M	LIFT STATION 8	21/10/2024	16336.87	16379.58	22.71	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.8 No.2				15081.83	15271.01	189.07	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.8 No.3				19210.69	19506.89	296.2	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.8 No.4				18819.23	19031.74	212.41	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
9	SMP-LS.9-1 to 3	SUBMERSIBLE PUMP LS.9 No.1	M	LIFT STATION 9	21/10/2024	25899.71	26174.58	274.87	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.9 No.2				23387.86	25664.16	227.1	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.9 No.3				19982.97	20038.07	55.1	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
10	SMP-LS.10-1 to 4	SUBMERSIBLE PUMP LS.10 No.1	M,Q,S,Y	LIFT STATION 10	21/10/2024	8999.07	9166.38	257.31	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.10 No.2				8656.54	8709.37	52.83	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.10 No.3				8391.82	8429.76	37.94	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.10 No.4				9294.16	9325.36	31.8	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
11	SMP-LS.11-1 to 4	SUBMERSIBLE PUMP LS.11 No.1	M	LIFT STATION 11	21/10/2024	3129.66	3158.28	8.61	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.11 No.2				1093.54	1098.48	4.94	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.11 No.3				1087.77	1093.49	5.71	ตรวจสอบถังพัก	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.11 No.4				921.7	926.89	5.19	ตรวจสอบถังพัก	ใช้งานได้ปกติ	

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ลำดับ	รายละเอียด	ชื่อเครื่องจักร	แบบแผน	สถานที่	วันที่ปฏิบัติงาน	วันที่	วันที่	วันที่	ผู้ดำเนินการ	สถานะ	หมายเหตุ
52	SMP.1/1	SUBMERSIBLE PUMP	M.Q.S.V	PLAZA 2	25/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
53	SMP.1/2	SUBMERSIBLE PUMP	M.Q.S.V	PLAZA 2	25/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
54	SMP.2/1	SUBMERSIBLE PUMP	M.Q.S.V	PLAZA 2	25/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
55	SMP.2/2	SUBMERSIBLE PUMP	M.Q.S.V	PLAZA 2	25/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
56	AB.1	AIR BLOWER	M	PLAZA 1	25/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
57	AB.2	AIR BLOWER	M	PLAZA 2	25/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
58	SA.1	AERATOR	M	RESIDENT	24/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
59	SA.2	AERATOR	M	RESIDENT	24/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
60	BP.1	BOOSTER PUMP RESIDENT	M	RESIDENT	24/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
61	BP.2	BOOSTER PUMP RESIDENT	M	RESIDENT	24/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
62	EW.P-1	ENGINE WATER PUMP	M	ENGINE WATER PUMP	28/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
63	EW.P-2	ENGINE WATER PUMP	M	ENGINE WATER PUMP	28/10/2024	N/A	N/A	N/A	ถูกสั่งซ่อมแล้ว	ใช้งานได้ปกติ	
64											
65											



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 NOVEMBER - 30 NOVEMBER 2024

ลำดับ	ชื่อ-นามสกุล	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	หมายเหตุ
1	นายสุทธิพงษ์ สิม โน									X	X	X	X	X	X	X	X	X	X	X	X							099-2472512
2	นายณัฐวุฒิ หัตถ์นกออง	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							063-0855577
3	นายทวีชัยทอง รัตนพันธ์	X	X	X	X	X	X	X	X													X	X	X	X	X	X	088-0807549

ข้อกำหนดผู้ที่ Stand by on call

- ผู้ที่ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้ที่มีรายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้





Monthly Preventive Maintenance Schedule Plan November 2024
CUSTOMER : EASTERN SEABOARD INDUSTRIAL ESTATE (KAYONG)

Project Site : ESE

Item	Equip. name	Tag No.	Qty	Frequency Year	Team	FA	P#	Sat	Week 1							Week 2							Week 3							Week 4						
									Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	1.1 SURVEILLANCE PUMP LS. No.1	SMP-LS-1 to 4	4	MO,S,Y	Team-1	W																														
1.2	1.2 SURVEILLANCE PUMP LS. No.2	SMP-LS-5 to 8	4	MO,S,Y	Team-1	MO																														
1.3	1.3 SURVEILLANCE PUMP LS. No.3	SMP-LS-9 to 12	4	MO,S,Y	Team-1	W																														
1.4	1.4 SURVEILLANCE PUMP LS. No.4	SMP-LS-13 to 16	4	MO,S,Y	Team-1	W																														
1.5	1.5 SURVEILLANCE PUMP LS. No.5	SMP-LS-17 to 20	4	MO,S,Y	Team-1	MO																														
1.6	1.6 SURVEILLANCE PUMP LS. No.6	SMP-LS-21 to 24	4	MO,S,Y	Team-1	MO																														
1.7	1.7 SURVEILLANCE PUMP LS. No.7	SMP-LS-25 to 28	4	MO,S,Y	Team-1	W																														
1.8	1.8 SURVEILLANCE PUMP LS. No.8	SMP-LS-29 to 32	4	MO,S,Y	Team-1	MO																														
1.9	1.9 SURVEILLANCE PUMP LS. No.9	SMP-LS-33 to 36	4	MO,S,Y	Team-1	MO																														
1.10	1.10 SURVEILLANCE PUMP LS. No.10	SMP-LS-37 to 40	4	MO,S,Y	Team-1	W																														
1.11	1.11 SURVEILLANCE PUMP LS. No.11	SMP-LS-41 to 44	4	MO,S,Y	Team-1	MO																														
1.12	1.12 SURVEILLANCE PUMP LS. No.12	SMP-LS-45 to 48	4	MO,S,Y	Team-1	MO																														
1.13	1.13 SURVEILLANCE PUMP LS. No.13	SMP-LS-49 to 52	4	MO,S,Y	Team-1	W																														
1.14	1.14 SURVEILLANCE PUMP LS. No.14	SMP-LS-53 to 56	4	MO,S,Y	Team-1	MO																														
1.15	1.15 SURVEILLANCE PUMP LS. No.15	SMP-LS-57 to 60	4	MO,S,Y	Team-1	MO																														
1.16	1.16 SURVEILLANCE PUMP LS. No.16	SMP-LS-61 to 64	4	MO,S,Y	Team-1	W																														
1.17	1.17 SURVEILLANCE PUMP LS. No.18	SMP-LS-65 to 68	4	MO,S,Y	Team-1	MO																														
2	2.1 SURFACE AERATOR (HWT)	SA-1 to SA-10, SA1	10	MO,S,Y	Team-1	W																														
3	3.1 SURFACE AERATOR	SA-1 to SA-10, SA2	8	MO,S,Y	Team-1	W																														
4	4.1 SURVEILLANCE PUMP	SMP-ODD-1 to 2	2	MO,S,Y	Team-1	MO																														
5	5.1 WOC	WOC-POND-1	1	W,Y	Team-1	W																														
6	6.1 RAW WATER PUMP (POND-1)	FW-1 to FW-2	2	MO,S,Y	Team-1	W																														
7	7.1 REUSED WATER PUMP	RP-1 to RP-2	2	MO,S,Y	Team-1	MO																														
8	8.1 PAC FEED PUMP	DP-1 to DP-2	2	MO,S,Y	Team-1	MO																														
9	9.1 PAC FEED PUMP	DP-3 to DP-4	2	MO,S,Y	Team-1	MO																														
10	10.1 PAC FEED PUMP	DP-5 to DP-6	2	MO,S,Y	Team-1	MO																														
11	11.1 CHLORINE FEED PUMP	CP-1 to CP-2	2	MO,S,Y	Team-1	MO																														
12	12.1 FLOW METER	FM-1 to FM-2	2	MO,S,Y	Team-1	MO																														
13	13.1 SURVEILLANCE PUMP	SMP-ODD-3 to SMP-ODD-4	4	MO,S,Y	Team-1	W																														
14	14.1 AIR BLOWER	AB-1 to AB-2	2	MO,S,Y	Team-1	W																														
15	15.1 HEATER	HA-1 to HA-2	2	MO,S,Y	Team-1	MO																														
16	16.1 BOILER PUMP REJECT	BP-1 to BP-2	2	MO,S,Y	Team-1	MO																														
17	17.1 ENGINE WATER PUMP	EW-1 to EW-2	2	MO,S,Y	Team-1	W																														

Remark : M=Monthly , Q = Quarterly , S= Semi Yearly , Y=Yearly , W=Weekly

TEAM 1 (SAMBATHANEE)

TEAM 2 (PERFORMAX)

Signature

Plan

(SMB)

Checked By

(OPM)

Approved By

(OMM)



MONTHLY REPORT FOR NOVEMBER 2024

M&E Preventive Maintenance
WHA Logistics Building Maintenance



AT

EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

BY



SIAMRAJATHANEE
PUBLIC COMPANY LIMITED

SIAMRAJATHANEE

Report to :

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Reported by:

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TABLE OF CONTENTS.

1. สรุปผลการบำรุงรักษา (Maintenance Overview)	3
2. สรุปเครื่องจักรที่มีปัญหา (Abnormalities)	4
2.1 รายการเครื่องจักรเสียหายหรือชำรุดและได้ทำการซ่อมเสร็จแล้ว	4
2.2 รายการเครื่องจักรเสียหายหรือชำรุดที่ยังซ่อมไม่เสร็จ	5
3. งานปรับปรุง (Proposed Improvements Review)	6
3.1 การเสนอราคาที่ยื่นมาในเดือนนี้	6
3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้	6
3.3 ข้อเสนอแนะจากผู้ทำรายงาน	6
4. Key Performance Index (KPI)	7
4.1 Perform of Breakdown Recode For Each Group of Equipment	7
4.2 Spare - Part And Consumable From Customer Store	7
5. ภาคผนวก	
MONTHLY PLAN FOR STAND BY ON CALL ON NOVEMBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN NOVEMBER 2024	
MONTHLY FOR STAND BY ON CALL ON NOVEMBER 2024	
PREVENTIVE MAINTENANCE WORK REQUEST REPORT IN NOVEMBER 2024	
MONTHLY PLAN FOR STAND BY ON CALL ON DECEMBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN DECEMBER 2024	
REPORT PREVENTIVE MAINTENANCE ON NOVEMBER 2024	



1. สรุปผลการตรวจเช็คและซ่อมบำรุงรักษา (Maintenance Overview)

งานบริการบำรุงรักษาเชิงป้องกันในเดือนที่ผ่านมา สามารถสรุปได้ดังนี้

เครื่องจักร (Equipment Group)	จำนวนรวม (Qty)	ประเภทของการปฏิบัติงาน					
		แผนการตรวจรอบ(P.M)		ความผิดปกติ (C.M)		เสีย Breakdown	
		วางแผน Planned	งานที่ทำได้ Actual	พบงาน Found	ซ่อม เสร็จFixed	พบงาน Found	ซ่อมเสร็จ Fixed
1. Motor & pump							
-SUBMERSIBLE PUMP (LIFT STATION)□	60	60	60	3	1	3	1
-SUREFACE AERATOR (WWTP-1)	13	13	13	-	-	-	-
-SUREFACE AERATOR (WWTP-2)	6	6	6	-	-	-	-
-SUBMERSIBLE PUMP (COD ONLINE)	2	2	2	-	-	-	-
-RAW WATER PUMP (POND.5)	5	5	5	-	-	-	-
-REUSED WATER PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC FEED PUMP (REUSE PLANT)	2	2	2	-	-	-	-
-PAC MIXER PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-CHLORINE FEED PUMP (REUSE PLANT)	1	1	1	-	-	-	-
-SLOW MIXER (REUSE PLANT)	2	2	2	-	-	-	-
-SUBMERSIBLE PUMP (PLAZA 2)	4	4	4	-	-	-	-
-AIR BLOWER (PLAZA 2)	2	2	2	-	-	-	-
-AERATOR (RESIDENT)	2	2	2	-	-	-	-
-BOOSTER PUMP (RESIDENT)	2	2	2	-	-	-	-
2. ENGINE WATER PUMP							
-ENGINE WATER PUMP	2	2	2	2	-	-	-
3. Power Supply and Control System							
- MCC (POND.5)	1	1	1	-	-	-	-
4. Other requested							
- Other requested	-	-	-	-	-	-	-



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและให้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipment break down and was recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
1	WHAID-ESIE- ESIE-LS-1- SMP2-MOT	LS-1-SMP2	ชุด Mechanical Seal , ชุด Bearing ด้านหน้าและด้านหลัง ชุด O-ring ซ้ำชุดเดียวกัน และ ใบพัดบดสึกเสื่อมสภาพ WHAID-ESIE-ESIE-LS- 2024-00016	- พั่นคอส์ชุดตัวใหม่ - เปลี่ยนเบร้งใหม่No.6305-2Z/C3-SKF - เปลี่ยนเบร้งใหม่No.3305-ATN9 SKF - Replace Mechanical Seal RNO 25 x 50 mm - Replace O-ring - Balanced Rotor & Impeller เสร็จเรียบร้อยวันที่ 5 ก.ย. 2024
2				
3				
4				
5				



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.2 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมไปแล้วเสร็จ(The following equipment break down and was NOT recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	เหตุผลที่ไม่ได้ซ่อม Reason NOT Fixed	แผนงานที่เฝ้าติดตาม Plan action
1	WHAID-ESIE- ESIE-LS-1- SMP1-GUIR	LS-1-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 1 เสื่อมสภาพและสูบน้ำไม่เพียงพอ WHAID-ESIE-ESIE-LS- 2024-00017	อยู่ระหว่างเสนอราคา	นักผู้รับเหมาเข้า มาซ่อมแซมและติดตั้ง
2	WHAID-ESIE- ESIE-LS-6- SMP1-GUIR	LS-6-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 6 เสื่อมสภาพและสูบน้ำไม่เพียงพอ WHAID-ESIE-ESIE-LS- 2024-00018	อยู่ระหว่างเสนอราคา	นักผู้รับเหมาเข้า มาซ่อมแซมและติดตั้ง
3	WHAID-ESIE- ESIE-EWP- EDP1-PUM	DIESEL ENGINE PUMP 1	PIN AND BUSH COUPLING เสื่อมสภาพจาก การใช้งาน WHAID-ESIE-ESIE-EWP- 2024-00001	อยู่ระหว่างเสนอราคา	นักผู้รับเหมาเข้า มาซ่อมแซมและติดตั้ง
4	WHAID-ESIE- ESIE-EWP-EDP2	DIESEL ENGINE PUMP 2	PIN AND BUSH COUPLING เสื่อมสภาพจาก การใช้งาน WHAID-ESIE-ESIE-EWP- 2024-00002	อยู่ระหว่างเสนอราคา	นักผู้รับเหมาเข้า มาซ่อมแซมและติดตั้ง
5					



3. การปรับปรุง (Proposed Improvements Review)

3.1 การนำเสนอราคาซึ่งออกอนุมัติในเดือนนี้ ดังนี้ (Past month's Quotation waiting for decision)

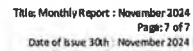
ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.2 การเสนอราคาที่ยังรออนุมัติ ในเดือนนี้ (New Quotation during this month)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.3 ข้อเสนอแนะจากผู้ที่เกี่ยวข้อง (Recommendation)

ลำดับที่	อุปกรณ์ / สถานที่	ความเสี่ยงที่พบ	แนวทางการปรับปรุง	Status



4.1 Percentage of Breakdown Record for each group equipment ในเดือนที่ผ่านมาสามารถสรุปได้ดังนี้

4.2 อะไหล่และอุปกรณ์ที่เปลี่ยนจากลูกค้า (Spare-Part and consumable from customer store) เพื่อใช้งานซ่อมบำรุง

NO.	Designation	Qty.	Remark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Customer,

Attention to: Mr.Sanae Pengsaengthong

Signature :



MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 NOVEMBER - 30 NOVEMBER 2024

ลำดับ	ชื่อ-นามสกุล	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	หมายเลข
		1	2	4	5	6	7	8	9	11	12	13	14	15	16	18	19	20	21	22	23	25	26	27	28	29	30	
1	นายสุทธิพงษ์ สิม โน									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	099-2472512
2	นายณัฐวุฒิ ทักษิณทอง	X	X		X	X	X	X	X		X	X	X	X	X		X	X	X									063-0855577
3	นายเกรียงยุทธ รัตนพันธ์	X	X		X	X	X	X	X										X	X	X		X	X	X	X	X	088-0807549

ข้อกำหนดผู้ Stand by on call

- ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้รับรายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้

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ESIE MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN
AND ACTUAL PLAN ON NOVEMBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit

วันที่ (Date) : 30/11/2024



Monthly Preventive Maintenance Schedule Plan November 2024

CUSTOMER : EASTERN SEAGARD INDUSTRIAL TRUSTE (RAYONG)

Project Site : ESE

Item	Equipment name	Tag no.	Qty	Frequency Year	Team	PA	Fa	Se	Week							Week							Week						
									Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	1.1	SUBMERSIBLE PUMP L.S. No.1	SWP-LS.1-1 to 4	4	MO.S.Y	Team1	W																						
1	1.2	SUBMERSIBLE PUMP L.S. No.2	SWP-LS.2-1 to 4	4	MO.S.Y	Team1	W																						
1	1.3	SUBMERSIBLE PUMP L.S. No.3	SWP-LS.3-1 to 4	4	MO.S.Y	Team1	W																						
1	1.4	SUBMERSIBLE PUMP L.S. No.4	SWP-LS.4-1 to 4	4	MO.S.Y	Team1	W																						
1	1.5	SUBMERSIBLE PUMP L.S. No.5	SWP-LS.5-1 to 3	3	MO.S.Y	Team1	W																						
1	1.6	SUBMERSIBLE PUMP L.S. No.6	SWP-LS.6-1 to 4	4	MO.S.Y	Team1	W																						
1	1.7	SUBMERSIBLE PUMP L.S. No.7	SWP-LS.7-1 to 4	4	MO.S.Y	Team1	W																						
1	1.8	SUBMERSIBLE PUMP L.S. No.8	SWP-LS.8-1 to 4	4	MO.S.Y	Team1	W																						
1	1.9	SUBMERSIBLE PUMP L.S. No.9	SWP-LS.9-1 to 3	3	MO.S.Y	Team1	W																						
1	1.10	SUBMERSIBLE PUMP L.S. No.10	SWP-LS.10-1 to 4	4	MO.S.Y	Team1	W																						
1	1.11	SUBMERSIBLE PUMP L.S. No.11	SWP-LS.11-1 to 4	4	MO.S.Y	Team1	W																						
1	1.12	SUBMERSIBLE PUMP L.S. No.12	SWP-LS.12-1 to 2	2	MO.S.Y	Team1	W																						
1	1.13	SUBMERSIBLE PUMP L.S. No.13	SWP-LS.13-1 to 3	3	MO.S.Y	Team1	W																						
1	1.14	SUBMERSIBLE PUMP L.S. No.14	SWP-LS.14-1 to 4	4	MO.S.Y	Team1	W																						
1	1.15	SUBMERSIBLE PUMP L.S. No.15	SWP-LS.15-1 to 3	3	MO.S.Y	Team1	W																						
1	1.16	SUBMERSIBLE PUMP L.S. No.16	SWP-LS.16-1 to 2	2	MO.S.Y	Team1	W																						
2	2.1	SURFACE AERATOR (HWT)	1A-1 to 4, 2A-1 to 2, 3A-1	13	MO.S.Y	Team1	W																						
2	2.2	SURFACE AERATOR	1B-1 to 4, 2A-1 to 2	8	MO.S.Y	Team1	W																						
3	3.1	SURFACE AERATOR	1A-1 to 4, 2A-1 to 2	8	MO.S.Y	Team1	W																						
4	4.1	SURFACE AERATOR	1B-1 to 4, 2A-1 to 2	8	MO.S.Y	Team1	W																						
5	5.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
6	6.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
7	7.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
8	8.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
9	9.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
10	10.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
11	11.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
12	12.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
13	13.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
14	14.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
15	15.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
16	16.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
17	17.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
18	18.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
19	19.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
20	20.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
21	21.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
22	22.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
23	23.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
24	24.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
25	25.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
26	26.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
27	27.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
28	28.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
29	29.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						
30	30.1	SURFACE AERATOR	SWP-COD-1 to 2	2	MO.S.Y	Team1	W																						

Remark : M=Monthly, Q=Quarterly, S=Semt Yearly, Y=Yearly, W=Weekly

Team 1 (SAMIJATHANEE)

Team 2 (PERFORBAX)

Team 3 (PERFORBAX)

Plan By

(SAMIJATHANEE)

Checked By

(PERFORBAX)

Approved By

(SAMIJATHANEE)



SIAM RAJATHANEE

MONTHLY PLAN FOR STAND BY ON CALL ON NOVEMBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit

วันที่ (Date) : 30/11/2024



MONTHLY PLAN FOR STAND BY ON CALL

วันที่	เวลา	รายชื่อผู้แจ้งงาน	รายชื่อพนักงานเข้า ตําเนินงาน	เครื่องจักร	สถานที่	รายละเอียด



ESIE PM WORK REQUEST REPORT
ON NOVEMBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit
วันที่ (Date) :30/11/2024



ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	ขนาด (บวข.)	สถานที่	วันที่ปฏิบัติงาน	บันทึก 1/11/2024	บันทึก 1/12/2024	รวม(บวข.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
1	SMP-L.S.1-1 to 4	SUBMERSIBLE PUMP L.S.1 No.1	M	LIFT STATION 1	21/11/2024	31437.25	31626.45	189.2	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	Golden Ball Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ L.B. Station 1 ซึ่งสามารถใช้งานได้ทั้งหมด WHA ID-E3 DE-F51E-1-5-2024-0817
		SUBMERSIBLE PUMP L.S.1 No.3				21531.79	21720.99	189.2	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.1 No.3				21128.39	21128.39	0	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.1 No.4				45176.38	45677.16	500.78	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.2 No.3				11803.99	12198.35	394.36	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
2	SMP-L.S.2-1 to 4	SUBMERSIBLE PUMP L.S.2 No.2	MQ	LIFT STATION 2	21/11/2024	16195.56	16244.83	46.27	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	ชุด Submersible Seal, ถูกฉีดน้ำมันเชื้อเพลิงแล้ว สามารถใช้ ๒๐-๐-๗๕ ชั่วโมงตามคู่มือการใช้งานและปฏิบัติตามขั้นตอนการ WHA ID-E3 DE-F51E-1-5-2024-0818
		SUBMERSIBLE PUMP L.S.2 No.3				40498.6	40746.1	247.5	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.2 No.4				16125.00	16541.12	416.12	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.3 No.1				51475.77	51523.33	47.56	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.3 No.2				21400.54	21448.85	48.29	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
3	SMP-L.S.3-1 to 4	SUBMERSIBLE PUMP L.S.3 No.3	M	LIFT STATION 3	21/11/2024	22162.58	22228.13	65.58	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.3 No.4				57319.13	57429.39	49.56	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.4 No.1				57845.86	58369.55	423.69	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.4 No.2				82906.38	83329.93	423.55	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.4 No.3				81518.18	81942.01	423.83	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
4	SMP-L.S.4-1 to 4	SUBMERSIBLE PUMP L.S.4 No.4	M	LIFT STATION 4	21/11/2024	74223.00	74645.51	422.51	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.1				26329.48	26372.76	43.28	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.2				24784.03	24846.92	62.89	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.3				13764.34	13804.79	40.45	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.4				26329.48	26372.76	43.28	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
5	SMP-L.S.5-1 to 3	SUBMERSIBLE PUMP L.S.5 No.1	MQ,S	LIFT STATION 5	26/11/2024	26329.48	26372.76	43.28	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.2				24784.03	24846.92	62.89	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.3				13764.34	13804.79	40.45	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.4				26329.48	26372.76	43.28	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	
		SUBMERSIBLE PUMP L.S.5 No.5				26329.48	26372.76	43.28	ถูกฉีดน้ำมันเชื้อเพลิง	โรงงานได้ปกติ	



ลำดับที่	รหัสเครื่องจักร	ชื่อเครื่องจักร	หมายเลขประจำตัว	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/11/2024	วันที่ 1/12/2024	รวมชั่วโมง	ผู้ดำเนินการ	สถานะ	หมายเหตุ
6	SMP-L5.6-1 to 4	SUBMERSIBLE PUMP L5.6 No.1	M	LIFT STATION 6	21/11/2024	28560.22	28732.79	232.57	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	Under Ball Submersible Pump No.1, No.3 & No.4 ที่ JJB Station 6 มีข้อมูลการปฏิบัติงานปรากฏตาม W11A10-PS10-PS10-1.5.2024-08018
		SUBMERSIBLE PUMP L5.6 No.2				63276.38	63371.48	95.1	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.6 No.3				46237.97	46471.92	233.95	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.6 No.4				44510.72	44730.25	219.53	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.7 No.1				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
7	SMP-L5.7-1 to 5	SUBMERSIBLE PUMP L5.7 No.2	M	LIFT STATION 7	21/11/2024	N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	อยู่ระหว่างดำเนินการ GUIDE
		SUBMERSIBLE PUMP L5.7 No.3				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.7 No.4				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.7 No.5				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.7 No.6				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.7 No.7				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.7 No.8				N/A	N/A	N/A	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.8 No.1				16379.58	16404.67	25.09	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.8 No.2				15370.1	15396.32	26.22	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
8	SMP-L5.8-1 to 4	SUBMERSIBLE PUMP L5.8 No.3	M,Q	LIFT STATION 8	22/11/2024	19506.89	19957.68	450.79	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.8 No.4				19031.74	19166.36	134.62	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.9 No.1				26174.58	26397.57	217.99	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.9 No.2				35664.16	35956.51	292.35	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
9	SMP-L5.9-1 to 3	SUBMERSIBLE PUMP L5.9 No.3	M	LIFT STATION 9	22/11/2024	20038.07	20104.17	66.1	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.10 No.1				9166.38	9449.53	283.35	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.10 No.2				8709.37	8768.06	58.69	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
10	SMP-L5.10-1 to 4	SUBMERSIBLE PUMP L5.10 No.3	M	LIFT STATION 10	22/11/2024	8429.76	8464.88	35.12	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.10 No.4				9325.96	9354.5	28.54	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.11 No.1				3138.28	3144.69	6.41	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.11 No.2				1099.48	1103.26	4.78	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
11	SMP-L5.11-1 to 4	SUBMERSIBLE PUMP L5.11 No.3	M,Q,S,Y	LIFT STATION 11	22/11/2024	926.89	931.66	4.77	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.11 No.4				1093.49	1098.79	5.3	ถูกติดตั้งเสร็จสมบูรณ์	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP L5.12 No.1									



ESSE PM WORK REQUEST REPORT IN NOVEMBER 2024

ลำดับที่	รายการขอรับ	ชื่อเครื่องจักร	ขนาด/รุ่น/ปี	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/11/2024	วันที่ 1/12/2024	รวม (ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
12	SMP-LS13-1 to 2	SUBMERSIBLE PUMP LS.13 No.1	M	LIFT STATION 12	22/11/2024	2288.82	2301.68	12.86	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.13 No.2				8239.82	8781.31	541.49	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
13	SMP-LS13-1 to 3	SUBMERSIBLE PUMP LS.13 No.1	M	LIFT STATION 13	22/11/2024	80.40	80.40	0	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.13 No.2				12168.39	12182.17	13.88	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.13 No.3				12353.89	12369.69	15.8	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
14	SMP-LS14-1 to 4	SUBMERSIBLE PUMP LS.14 No.1	M,Q	LIFT STATION 14	23/11/2024	581.81	584.45	32.64	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.14 No.2				295.05	326.04	30.99	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.14 No.3				291.56	314.58	23.02	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.14 No.4				435.37	554.35	119.88	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
15	SMP-LS15-1 to 3	SUBMERSIBLE PUMP LS.15 No.1	M	LIFT STATION 15	22/11/2024	3621.73	3667.49	45.76	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.15 No.2				5067.93	5148.74	80.81	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.15 No.3				4487.01	4575.92	88.9	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
16	SMP-LS16-1 to 2	SUBMERSIBLE PUMP LS.16 No.1	M	LIFT STATION 16	23/11/2024	1150.4	1159.03	8.63	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
		SUBMERSIBLE PUMP LS.16 No.2				1166.16	1298.58	132.42	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
17	1A-1	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	4439.1	4908.33	469.23	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
18	1A-2	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	3495.75	3511.59	15.84	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
19	1A-3	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	6288.79	6679.36	467.07	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
20	1A-4	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	1838.62	2306.85	468.23	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
21	1A-5	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	2747.83	3129.38	381.55	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
22	1A-6	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	3539.54	4025.45	485.91	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
23	2A-1	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	9367.30	9691.82	324.52	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
24	2A-2	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	9990.99	1024.82	361.83	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	9.81
25	2A-3	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	8872.34	8983.17	110.83	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
26	2A-4	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	4578.53	4678.01	99.48	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
27	2A-5	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	3804.50	3956.38	152.48	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
28	2A-6	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	2852.45	3214.81	362.36	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
29	3A1	SURFACE AERATOR (WWTP)	M	WWTP - 1	23/11/2024	17594.43	17594.43	0	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	
30	1A-1	SURFACE AERATOR	M	WWTP - 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	
31	1A-2	SURFACE AERATOR	M	WWTP - 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	
32	1A-3	SURFACE AERATOR	M	WWTP - 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	
33	1A-4	SURFACE AERATOR	M	WWTP - 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	
34	2A-1	SURFACE AERATOR	M	WWTP - 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	
35	2A-2	SURFACE AERATOR	M	WWTP - 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	



ESSE PM WORK REQUEST REPORT IN NOVEMBER 2024

ลำดับที่	รายการขอรับ	ชื่อเครื่องจักร	ขนาด/รุ่น/ปี	สถานที่	วันที่ปฏิบัติงาน	วันที่ 1/11/2024	วันที่ 1/12/2024	รวม (ชม.)	ผู้ดำเนินการ	สถานะ	หมายเหตุ
36	SMP-COD-1	SUBMERSIBLE PUMP	M,Q	COD ONLINE	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
37	SMP-COD-2	SUBMERSIBLE PUMP	M,Q	COD ONLINE	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
38	MCC-POND-5	MCC	M	POND-5	21/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
39	P1	RAW WATER PUMP (POND-5)	M	POND-5	21/11/2024	N/A	846.85	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	ไม่ได้เปิดรับ
40	P2	RAW WATER PUMP (POND-5)	M	POND-5	21/11/2024	N/A	1833.44	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	ไม่ได้เปิดรับ
41	P3	RAW WATER PUMP (POND-5)	M	POND-5	21/11/2024	33332.47	33332.47	0	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
42	P4	RAW WATER PUMP (POND-5)	M	POND-5	21/11/2024	33785.63	34222.1	497.07	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
43	P5	RAW WATER PUMP (POND-5)	M	POND-5	21/11/2024	N/A	17991.88	N/A	ตรวจสอบความพร้อมใช้งาน	ไม่ได้ใช้งาน	ไม่ได้เปิดรับ
44	RF-1	REUSED WATER PUMP	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	รอการดำเนินการเพื่อเปิดรับ
45	RF-2	REUSED WATER PUMP	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
46	DP-1A	PAC FEED PUMP	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
47	DP-1B	PAC FEED PUMP	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
48	MX-1	PAC MIXER PUMP	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
49	DP-2	CHLORINE FEED PUMP	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
50	SLM-1	SLOW MIXER	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
51	SLM-2	SLOW MIXER	M,Q	REUSE PLANT	N/A	N/A	N/A	N/A	N/A	รอการดำเนินการ	
52	SMP-J1	SUBMERSIBLE PUMP	M	PLAZA 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
53	SMP-J2	SUBMERSIBLE PUMP	M	PLAZA 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
54	SMP-2A	SUBMERSIBLE PUMP	M	PLAZA 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
55	SMP-2B	SUBMERSIBLE PUMP	M	PLAZA 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
56	AB-1	AIR BLOWER	M	PLAZA 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
57	AB-2	AIR BLOWER	M	PLAZA 2	23/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
58	SA-1	AERATOR	M,Q,S,Y	RESIDENT	27/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
59	SA-2	AERATOR	M,Q,S,Y	RESIDENT	27/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
60	BP-1	BOOSTER PUMP RESIDENT	M,Q,S,Y	RESIDENT	27/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
61	BP-2	BOOSTER PUMP RESIDENT	M,Q,S,Y	RESIDENT	27/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	
62	EWP-1	ENGINE WATER PUMP	M	ENGINE WATER PUMP	30/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	FIN AND BU-SH COUPLING สิ้นสุดการ จากที่ปรึกษา WILA ID-ESSE-ESSE-EWP-2024-00001
63	EWP-2	ENGINE WATER PUMP	M	ENGINE WATER PUMP	30/11/2024	N/A	N/A	N/A	ตรวจสอบความพร้อมใช้งาน	ใช้งานได้ปกติ	FIN AND BU-SH COUPLING สิ้นสุดการ จากที่ปรึกษา WILA ID-ESSE-ESSE-EWP-2024-00002

MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 DECEMBER - 31 DECEMBER 2024

ลำดับ	ชื่อ-นามสกุล	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	WED	THU	FRI	SAT	MON	TUE	หมายเหตุ
1	นายณัฐวิทย์ ทาทันกอง	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	063-0855577
2	นายทวีชัยทอง วัฒนพันธ์	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	088-0807549
3	นายสุทธิพงษ์ ลิ้มโน																											099-2472512

ข้อกำหนดผู้ Stand by on call

- ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขปัญหาเบื้องต้นและรู้ Scope งานของ Site เป็นอย่างดี
- ผู้รับรายชื่อ Stand by call ไม่สามารถ Stand by ได้จะต้องถูกลงโทษทางวินัยที่บริษัทกำหนดไว้

นายณัฐวิทย์

นายทวีชัยทอง

นายสุทธิพงษ์



Monthly Preventive Maintenance Schedule Plan December 2024

CUSTOMER : EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

Project Site : ESIE

Item	Equipment Name	Tag No.	Qty.	Frequency Year	Team	PM Month	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1.1	SUMMERABLE PUMP L.S. No.1	SMP-L.S.1-1 to 4	4	M.O.S.Y	Team-1	M																					
1.2	SUMMERABLE PUMP L.S. No.2	SMP-L.S.2-1 to 4	4	M.O.S.Y	Team-1	W																					
1.3	SUMMERABLE PUMP L.S. No.3	SMP-L.S.3-1 to 4	4	M.O.S.Y	Team-1	W.O.																					
1.4	SUMMERABLE PUMP L.S. No.4	SMP-L.S.4-1 to 4	4	M.O.S.Y	Team-1	W																					
1.5	SUMMERABLE PUMP L.S. No.5	SMP-L.S.5-1 to 3	3	M.O.S.Y	Team-1	W																					
1.6	SUMMERABLE PUMP L.S. No.6	SMP-L.S.6-1 to 4	4	M.O.S.Y	Team-1	W.O.S																					
1.7	SUMMERABLE PUMP L.S. No.7	SMP-L.S.7-1 to 4	4	M.O.S.Y	Team-1	W																					
1.8	SUMMERABLE PUMP L.S. No.8	SMP-L.S.8-1 to 4	4	M.O.S.Y	Team-1	W																					
1.9	SUMMERABLE PUMP L.S. No.9	SMP-L.S.9-1 to 3	3	M.O.S.Y	Team-1	W.O																					
1.10	SUMMERABLE PUMP L.S. No.10	SMP-L.S.10-1 to 4	4	M.O.S.Y	Team-1	W																					
1.11	SUMMERABLE PUMP L.S. No.11	SMP-L.S.11-1 to 4	4	M.O.S.Y	Team-1	W																					
1.12	SUMMERABLE PUMP L.S. No.12	SMP-L.S.12-1 to 2	2	M.O.S.Y	Team-1	W.O.S.Y																					
1.13	SUMMERABLE PUMP L.S. No.13	SMP-L.S.13-1 to 3	3	M.O.S.Y	Team-1	W																					
1.14	SUMMERABLE PUMP L.S. No.14	SMP-L.S.14-1 to 4	4	M.O.S.Y	Team-1	W																					
1.15	SUMMERABLE PUMP L.S. No.15	SMP-L.S.15-1 to 3	3	M.O.S.Y	Team-1	W.O																					
1.16	SUMMERABLE PUMP L.S. No.16	SMP-L.S.16-1 to 2	2	M.O.S.Y	Team-1	M																					
2.	WATER-1																										
2.1	SURFACE ABRATOR (WHTP)	SA-1 to SA-2 to 3, SA1	13	M.O.S.Y	Team-1	M.O.S																					
2.	WATER-2																										
2.1	SURFACE ABRATOR	SA-1 to SA-2 to 2	6	M.O.S.Y	Team-1	M																					
3.	COOLING-WATER																										
3.1	WOP	WOP-COD	1	W.Y	Team-1	M																					
3.2	SUMMERABLE PUMP	SMP-COD-1 to 2	2	M.O.S.Y	Team-1	W																					
4.	WATER																										
4.1	WCC	WCC-POND-5	1	W.Y	Team-1	M																					
4.2	WAV WATER PUMP (POMEL)	P1 to P5	5	M.O.S.Y	Team-1	W.O.S.Y																					
5.	WATER																										
5.1	WCC-1, WCC-2	WCC-Pond1, WCC-Pond2, WCC-Pond3	3	W.Y	Team-1	W																					
5.2	SUMMERABLE PUMP	SMP-11-12, SMP-21-22	4	M.O.S.Y	Team-1	W																					
5.3	WATER BLOWER	WB-1,2	2	M.O.S.Y	Team-1	M																					
6.	WATER																										
6.1	WCC	WCC-Pond1, WCC-Pond2	2	W.Y	Team-1	W																					
7.2	WATER	WCC-Pond1	2	M.O.S.Y	Team-1	W																					
7.3	WATER PUMP RESIDENT	WP-1,2	2	M.O.S.Y	Team-1	M																					
8.	ENGINE WATER PUMP	SWP-2	2	M.O.S.Y	Team-1	W.O.S.Y																					

Remark: M=Monthly, Q=Quarterly, Y=Yearly, W=Weekly

Team 1 (SAMI RAJATHAMEE)

Team 2 (PERFORMA)

W=Water

W=Water

Plan By: (SAMI RAJATHAMEE)

Checked By: (REPM)

Approved By: (OMM)



MONTHLY REPORT FOR DECEMBER 2024

M&E Preventive Maintenance
WHA Logistics Building Maintenance



AT

EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG)

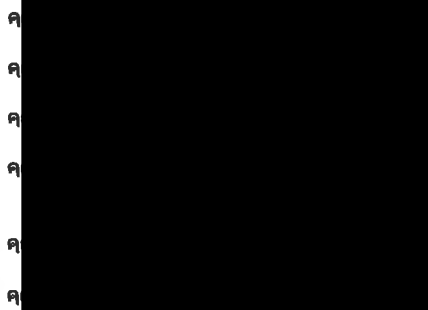
BY



SIAMRAJATHANEE
PUBLIC COMPANY LIMITED

SIAMRAJATHANEE

Report to :



Reported by:

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TABLE OF CONTENTS.

1. สรุปผลการบำรุงรักษา (Maintenance Overview)	3
2. สรุปเครื่องจักรที่มีปัญหา (Abnormalities)	4
2.1 รายการเครื่องจักรเสียหายหรือชำรุดและได้ทำการซ่อมเสร็จแล้ว	4
2.2 รายการเครื่องจักรเสียหายหรือชำรุดที่ยังซ่อม ไม่เสร็จ	5
3. งานปรับปรุง (Proposed Improvements Review)	6
3.1 การเสนอราคาที่ยื่นมาในเดือนนี้	6
3.2 การเสนอราคาที่ยังรออนุมัติในเดือนนี้	6
3.3 ข้อเสนอแนะจากผู้ที่ทำงาน	6
4. Key Performance Index (KPI)	7
4.1 Perfor of Breakdown Recode For Each Group of Equipment	7
4.2 Spare - Part And Consumable From Customer Store	7
5. ภาคผนวก	
MONTHLY PLAN FOR STAND BY ON CALL ON DECEMBER 2024	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN DECEMBER 2024	
MONTHLY FOR STAND BY ON CALL ON DECEMBER 2024	
PREVENTIVE MAINTENANCE WORK REQUEST REPORT IN DECEMBER 2024	
MONTHLY PLAN FOR STAND BY ON CALL ON JANUARY 2025	
MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN JANUARY 2025	
REPORT PREVENTIVE MAINTENANCE ON DECEMBER 2024	



1. สรุปผลการตรวจเช็คและซ่อมบำรุงรักษา (Maintenance Overview)

งานบริการบำรุงรักษาเชิงป้องกันในเดือนที่ผ่านมา สามารถสรุปได้ดังนี้

เครื่องจักร (Equipment Group)	จำนวนรวม (Qty)	ประเภทของการปฏิบัติงาน					
		แผนการตรวจสอบ(P.M)		ความผิดปกติ (C.M)		เสีย Breakdown	
		วางแผน Planned	งานที่ทำได้ Actual	พบงาน Found	ซ่อม เสียFixed	พบงาน Found	ซ่อมเสร็จ Fixed
1. Motor & pump							
-SUBMERSIBLE PUMP (LIFT STATION)□	60	60	60	2	-	2	-
-SUREFACE AERATOR (WWTP-1)	13	13	13	-	-	-	-
-SUREFACE AERATOR (WWTP-2)	6	6	6	-	-	-	-
-SUBMERSIBLE PUMP (COD ONLINE)	2	2	2	-	-	-	-
-RAW WATER PUMP (POND.5)	5	3	3	-	-	-	-
-SUBMERSIBLE PUMP (PLAZA 2)	4	4	4	-	-	-	-
-AIR BLOWER (PLAZA 2)	2	2	2	-	-	-	-
-AERATOR (RESIDENT)	2	2	2	-	-	-	-
-BOOSTER PUMP (RESIDENT)	2	2	2	-	-	-	-
2. ENGINE WATER PUMP							
-ENGINE WATER PUMP	2	2	2	2	2	-	-
3. Power Supply and Control System							
- MCC (POND.5)	1	1	1	-	-	-	-
4. Other requested							
- Other requested	-	-	-	-	-	-	-



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.1 รายการเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมแล้วเสร็จ (The following equipulment break down and was recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	การดำเนินการแก้ไข Corrective action conducted
1	WHAID-ESIE- ESIE-EWP- EDP1-PUM	DIESEL ENGINE PUMP 1	PIN AND BUSH COUPLING เสื่อมสภาพจาก การใช้งาน WHAID-ESIE-ESIE-EWP- 2024-00001	- เปลี่ยนลูกยางคัปปลิ่ง ขนาด 19-35-34 - เปลี่ยนปะเก็นซีค ขนาด 3/8" เสร็จเรียบร้อยวันที่ 24 ธ.ค. 2567
2	WHAID-ESIE- ESIE-EWP-EDP2	DIESEL ENGINE PUMP 2	PIN AND BUSH COUPLING เสื่อมสภาพจาก การใช้งาน WHAID-ESIE-ESIE-EWP- 2024-00002	- เปลี่ยนลูกยางคัปปลิ่ง ขนาด 19-35-34 - เปลี่ยนปะเก็นซีค ขนาด 3/8" เสร็จเรียบร้อยวันที่ 24 ธ.ค. 2567
3				
4				
5				



2. สรุปเครื่องจักรและอุปกรณ์ที่มีปัญหา (Abnormalities)

2.2 รวบรวมเครื่องจักรที่ชำรุดและได้ทำการแก้ไขซ่อมแซมไม่แล้วเสร็จ (The following equipment break down and was **NOT** recovered)

ลำดับที่ No	หมายเลขอุปกรณ์ Equipment tag	สถานที่ Location	ปัญหาที่ตรวจพบ Problem	เหตุผลที่ไม่ได้ซ่อม Reason NOT Fixed	แผนงานที่ต้องทำ Plan action
1	WHAID-ESIE- ESIE-LS-1- SMP1-GUIR	LS-1-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 1 เสื่อมสภาพและผุกร่อนชำรุด เสียหาย WHAID-ESIE-ESIE-LS- 2024-00017	อยู่ระหว่างเสนอราคา	ได้ผู้รับเหมาเข้ามา มาซ่อมแซมและติดตั้ง
2	WHAID-ESIE- ESIE-LS-6- SMP1-GUIR	LS-6-SMP1	Guide Rail Submersible Pump No.1 , No.2 , No.3 & No.4 ที่ Lift Station 6 เสื่อมสภาพและผุกร่อนชำรุด เสียหาย WHAID-ESIE-ESIE-LS- 2024-00018	อยู่ระหว่างเสนอราคา	ได้ผู้รับเหมาเข้ามา มาซ่อมแซมและติดตั้ง
3					
4					
5					



3. การปรับปรุง (Proposed Improvements Review)

3.1 การนำเสนอราคาซึ่งออกอนุมัติในเดือนนี้ ดังนี้ (Past month's Quotation waiting for decision)

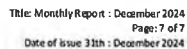
ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.2 การเสนอราคาที่ยังรออนุมัติ ในเดือนนี้ (New Quotation during this month)

ลำดับที่	Quotation No.	Date	Amount	Job description	Status

3.3 ข้อเสนอแนะจากผู้ที่ทำงาน (Recommendation)

ลำดับที่	อุปกรณ์ / สถานที่	ความเสียหายที่พบ	แนวทางการปรับปรุง	Status



4.1 Percentage of Breakdown Record for each group equipment ในเดือนที่ผ่านมาสามารถสรุปได้ดังนี้

ក្រុមទូលក្ខណ៍(Equipment Group)	Breakdown Time Unit	Number of Equipment	% Break down of Total Equipment
1. Motor and Pump	2	96	2.08%
2. ENGINE WATER PUMP	0	2	0.00%
3. Power Supply and Control System	0	1	0.00%
4. Other requested	0	0	0.00%

4.2 อะไหล่และอุปกรณ์สิ้นเปลืองที่เบิกจากลูกค้า (Spare-Part and consumable from customer store) เพื่อใช้งานซ่อมบำรุง

และอื่นๆ

NO.	Designation	Qty.	Remark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

>>>>>>>>>> End of Report <<<<<<<<<<<

Customer.

Attention to: Mr.Sanae Pengsaengthong

Signature :

MONTHLY PLAN FOR STAND BY ON CALL

SITE WHA ESIE

1 DECEMBER - 31 DECEMBER 2024

ลำดับ	ชื่อ-นามสกุล																															
		MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	THU	FRI	SAT		MON	TUE	WED	THU	FRI	SAT		MON	TUE	
		2	3	4	5	6	7		9	10	11	12	13	14		16	17	18	19	20	21		23	24	25	26	27	28		30	31	หมายเลข
1	นายณัฐวุฒิ ทักมิกอง	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X											063-0855577
2	นางสาวเรณูทอง รัตนพันธ์	X	X	X	X	X	X		X	X											X		X	X	X	X	X	X	X	X		088-0807549
3	นายสุทธินพงษ์ ถิ่น โน										X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X	X		099-2472512

ข้อกำหนดผู้ Stand by on call

- ผู้ Stand by on call ต้องสามารถติดต่อได้ตลอดเวลา 24 ชั่วโมง ทางโทรศัพท์
- ต้องทราบที่อยู่และมีความพร้อมที่จะสามารถแก้ไขงานเบื้องต้นและ Scope งานของ Site เป็นอย่างดี
- ผู้รายชื่อ Stand by แต่ไม่สามารถ Stand by ได้จะต้องลงโทษทางวินัยที่บริษัทกำหนดไว้

- ☒ วันหยุดประจำสัปดาห์
- ☐ วันหยุดนักขัตฤกษ์
- ☒ Stand by on call วันหยุดประจำสัปดาห์
- ☒ Stand by on call วันหยุดนักขัตฤกษ์
- ☒ Stand by on call วันทำงานปกติ

นาย [REDACTED]
นาย [REDACTED]
นาย [REDACTED]

ESIE MONTHLY PREVENTIVE MAINTENANCE SCHEDULE PLAN
AND ACTUAL PLAN ON DECEMBER 2024

บันทึกโดย (Record By) : Mr. Anupong Damsanit
วันที่ (Date) : 31/12/2024

[illegible]

Remark : M=Monthly , Q= Quarterly , S= Semi Yearly , Y= Yearly , W= Weekly

■ **กิจกรรมการจ้างตัดหญ้า**

TEAM 1 (SAMBATHANED)

☐ ทีมงานนักวิจัย

TEAM 2 (DEBBORAH)

- ☐ วิชา คอมพิวเตอร์
- ☐ วิชา ที่เกี่ยวข้อง

TEAM 2 (PERFORM AX)

Checked By: _____
(EPM)

Approved By _____
(CMAA)

ภาคผนวก ก-11

บันทึกปริมาณน้ำทิ้งหลังผ่านการบำบัดไปใช้ประโยชน์

ปริมาณน้ำ Reuse and Reclaimed water ที่จ่ายให้ลูกค้า และรดพื้นที่สีเขียว ประจำปี 2567

เดือน	ผสมลงอ่างน้ำดิบ	จำหน่ายให้ลูกค้า	ผู้รับเหมารดน้ำ	จำหน่ายให้ลูกค้า(Reclaimed)	รวม
	(ลบ.ม.ต่อเดือน)	(ลบ.ม.ต่อเดือน)	(ลบ.ม.ต่อเดือน)	(ลบ.ม.ต่อเดือน)	
ม.ค.	-	-	20,000.00	159,603.00	179,603.00
ก.พ.	-	-	20,000.00	142,540.00	162,540.00
มี.ค.	-	-	20,000.00	104,721.00	124,721.00
เม.ย.	-	-	20,000.00	135,808.00	155,808.00
พ.ค.	-	-	20,000.00	115,833.00	135,833.00
มิ.ย.	-	-	20,000.00	131,867.00	151,867.00
ก.ค.	-	-	20,000.00	114,911.00	134,911.00
ส.ค.	-	-	20,000.00	115,232.00	135,232.00
ก.ย.	-	-	20,000.00	130,298.00	150,298.00
ต.ค.	-	-	20,000.00	147,561.00	167,561.00
พ.ย.	-	-	20,000.00	156,295.00	176,295.00
ธ.ค.	-	-	20,000.00	133,670.00	153,670.00
รวมทั้งหมด	-	-	240,000.00	1,588,339.00	1,828,339.00
ค่าเฉลี่ย 12 เดือน	-	-	20,000.00	132,361.58	152,994.50
ค่าเฉลี่ยต่อวัน	0	0	645.16	4,269.73	4914.89

ภาคผนวก ก-12

ตัวอย่างใบกำกับการขนส่งของเสีย (manifest) ของโรงงาน

เลขที่อ้างอิง 1-20-0867-106953-0-N

เอกสารแสดงการจัดการ (Manifest Form)

ส่วนที่ ๑ ผู้ก่อกำเนิด

ชื่อผู้ก่อกำเนิด : บริษัท แอเดียนท์ แอนด์ ซัมมิท คอร์ปอเรชั่น จำกัด เลขทะเบียนโรงงาน : 72230001225438
 สถานที่ตั้งโรงงาน : 64/25 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด หมู่ที่ 4 ถนน- ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
 เบอร์โทรศัพท์ติดต่อ : เบอร์โทรติดต่อฉุกเฉิน :

ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว :

ชื่อผู้ขับ [REDACTED] เลขทะเบียนพาหนะ [REDACTED] พาหนะที่ใช้ : รถพ่วง

โดยขนส่งจากจังหวัด : ระยอง ไปยังจังหวัด : ชลบุรี ไซระยะเวลาประมาณ : 1 วัน

ผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455

สถานที่ตั้ง : 88 หมู่ที่ 8 ถนนทางหลวง 331 กิโลเมตร 91-92 ตำบลบ่อวิน อำเภอสัตร์ราชา จังหวัดชลบุรี 20230

เบอร์โทรศัพท์ติดต่อ : เบอร์โทรติดต่อฉุกเฉิน :

รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ที่ขนส่ง :

ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	รหัสประเภท หรือชนิด	ลักษณะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	Used hydraulic oil	130113	ถังเหล็ก	1	0.1
2	อุปกรณ์สำนักงาน	150110	Big bag	1	0.08
3	ภาชนะปนเปื้อน	150110	Big bag	2	0.3
4	กระป๋องสเปรย์	150111	Big bag	2	0.2
5	ถุงมือ	150202	Big bag	3	0.4
6	หลอดฟลูออเรสเซนต์	160215	ถังเหล็ก	2	0.2

รวมปริมาณทั้งหมด : ของเหลว 0.1 ตัน ของแข็ง 1.18 ตัน ของแข็งกึ่งเหลว 0 ตัน

[] น้ำหนักชั่งจริง [X] น้ำหนักประมาณการ

ขอความร่วมมือระหว่างการขนส่ง :

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ปริมาณที่ส่งมอบ : 1.28 ตัน
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม วันที่ส่งมอบ : 24/08/2567
 และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ เวลาที่ส่งมอบ :

ลงชื่อผู้ก่อกำเนิด [REDACTED] ลายมือชื่อ : วันที่ :

ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่ง
 จะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ

ลงชื่อผู้ขับ [REDACTED] ลายมือชื่อ : วันที่ :

[X] ผู้ก่อกำเนิดได้แนบภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว

ส่วนที่ ๓ ผู้รับดำเนินการ

ชื่อผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455

ส่วนที่ ๓/๑ ขนส่งจากจังหวัด : ระยอง มายังจังหวัด : ชลบุรี

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ใช้ระยะเวลา : 1 วัน

ตามที่ระบุข้างต้นมาถึงสถานที่บริหารจัดการ วันที่มาถึง : 28/08/2567

ลงชื่อผู้รับดำเนินการ [REDACTED] ลายมือชื่อ : เวลาที่มาถึง : 07:30

ส่วนที่ ๓/๒ ปริมาณที่รับมอบ : 0.7 ตัน

คำรับรอง : ข้าพเจ้าขอรับรองว่าบริหารจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น [X] น้ำหนักชั่งจริง [] น้ำหนักประมาณการ

ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม วันที่รับมอบ : 28/08/2567 เวลาที่มอบ : 07:40

ลงชื่อผู้รับดำเนินการ [REDACTED] ลายมือชื่อ : วันที่ : [X] ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว และ/หรือ

[X] เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

ส่วนที่ ๓/๓ ปริมาณที่จัดการแล้วเสร็จ : 0.7 ตัน

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว วันที่จัดการแล้วเสร็จ : 30/08/2567 เวลาที่จัดการแล้วเสร็จ : 10:24

ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต ปริมาณคงเหลือ : 0 ตัน

ลงชื่อผู้รับดำเนินการ [REDACTED] ลายมือชื่อ : วันที่ : [X] ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง

ส่วนที่ ๔ ผู้ก่อกำเนิดสรุปผลการจัดการ

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น

[X] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)

[] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๕)

[] ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)

[] ได้รับการจัดการแล้วเสร็จโดยผู้จัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)

ลงชื่อผู้ก่อกำเนิด [REDACTED] ลายมือชื่อ : วันที่ :

เอกสารแสดงการจัดการ (Manifest Form)					
ส่วนที่ ๑ ผู้ก่อการ					
ชื่อผู้ก่อการ : บริษัท แอเดียท์ แอนด์ ซัมมิท คอร์ปอเรชั่น จำกัด			เลขทะเบียนโรงงาน : 72230001225438		
สถานที่ตั้งโรงงาน : 64/25 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด หมู่ที่ 4 ถนน- ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140					
เบอร์โทรติดต่อ :			เบอร์โทรติดต่อฉุกเฉิน :		
ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว :					
ชื่อผู้ขับ : สมโชค ทรัพย์สูงเนิน ,สุรศักดิ์ บุญมส เลขทะเบียนพาหนะ : 2ฒภ7720 กท พาหนะที่ใช้ : รถบรรทุก					
โดยขนส่งจากจังหวัด : ระยอง ไปยังจังหวัด : ชลบุรี ใช้ระยะเวลาประมาณ : 1 วัน					
ผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด			เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455		
สถานที่ตั้ง : 88 หมู่ที่ 8 ถนนทางหลวง 331 กิโลเมตร 91-92 ตำบลบ่อวิน อำเภอสัตร์ราชา จังหวัดชลบุรี 20230					
เบอร์โทรติดต่อ :			เบอร์โทรติดต่อฉุกเฉิน :		
รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ที่ขนส่ง :					
ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว	รหัสประเภท หรือชนิด	ภาชนะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	ถุงมือ	150202	big bag	2	0.4
2	กระป๋องสเปรย์	150111	big bag	1	0.2
3	ภาชนะปนเปื้อน	150110	big bag	1	0.2
รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 0.8 ตัน ของแข็งกึ่งเหลว 0 ตัน					
[] น้ำหนักชั่งจริง [] น้ำหนักประมาณการ					
ข้อควรระวังระหว่างการขนส่ง :					
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ			ปริมาณที่ส่งมอบ : 0.8 ตัน		
ลงชื่อผู้ก่อการ () ลายมือชื่อ : วันที่ :			วันที่ส่งมอบ : 24/10/2567		
			เวลาที่ส่งมอบ :		
ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว					
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ					
ลงชื่อผู้ขับ () ลายมือชื่อ : วันที่ :					
[] ผู้ก่อการได้แนบภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว					
ส่วนที่ ๓ ผู้รับดำเนินการ					
ชื่อผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด			เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455		
ส่วนที่ ๓/๑			ขนส่งจากจังหวัด : ระยอง มายังจังหวัด : ชลบุรี		
คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว			ใช้ระยะเวลา : 1 วัน		
ตามที่ระบุข้างต้นมาถึงสถานที่รับจัดการ			วันที่มาถึง : 25/10/2567		
ลงชื่อผู้รับดำเนินการ () ลายมือชื่อ :			เวลาที่มาถึง : 06:37		
ส่วนที่ ๓/๒			ปริมาณที่รับมอบ : 0.5 ตัน		
คำรับรอง : ข้าพเจ้าขอรับรองว่ารับจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น			[] น้ำหนักชั่งจริง [] น้ำหนักประมาณการ		
ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม			วันที่รับมอบ : 25/10/2567 เวลาที่มอบ : 06:40		
ลงชื่อผู้รับดำเนินการ : รณว พงษ์ฤทธิ์ ลายมือชื่อ : วันที่ :			[] ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และ/หรือ		
			[] เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว		
ส่วนที่ ๓/๓			ปริมาณที่จัดการแล้วเสร็จ : 0.5 ตัน		
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว			วันที่จัดการแล้วเสร็จ : 29/10/2567 เวลาที่จัดการแล้วเสร็จ : 13:40		
ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต			ปริมาณคงเหลือ : 0 ตัน		
ลงชื่อผู้รับดำเนินการ () ลายมือชื่อ : วันที่ :			[] ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง		
ส่วนที่ ๔ ผู้ก่อการสรุปผลการจัดการ					
คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น					
[] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)					
[] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๕)					
[] ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)					
[] ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)					
ลงชื่อผู้ก่อการ () ลายมือชื่อ : วันที่ :					

เอกสารแสดงการจัดการ (Manifest Form)

ส่วนที่ ๑ ผู้ก่อการ

ชื่อผู้ก่อการ : บริษัท แอเดียท์ แอนด์ ซิมมิท คอร์ปอเรชั่น จำกัด เลขทะเบียนโรงงาน : 72230001225438
 สถานที่ตั้งโรงงาน : 64/25นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด หมู่ที่ 4 ถนน- ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
 เบอร์โทรศัพท์ : เบอร์โทรศัพท์ฉุกเฉิน :

ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว :
 ชื่อผู้ขับ : มงคล คำคำ เลขทะเบียนพาหนะ : 54-3396 กท พาหนะที่ใช้ : รถพ่วง
 โดยขนส่งจากจังหวัด : ระยอง ไปยังจังหวัด : ชลบุรี ใช้ระยะเวลาประมาณ : 1 วัน
 ผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455
 สถานที่ตั้ง : 88 หมู่ที่ 8 ถนนทางหลวง 331 กิโลเมตร 91-92 ตำบลบ่อวิน อำเภอสัตร์ราชา จังหวัดชลบุรี 20230
 เบอร์โทรศัพท์ : เบอร์โทรศัพท์ฉุกเฉิน :

รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ที่ขนส่ง :

ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว	รหัสประเภท หรือชนิด	ภาชนะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	ถุงมือ	150202	big bag	1	0.04
2	ภาชนะปนเปื้อน	150110	big bag	1	0.02
3	กระป๋องสเปรย์	150111	big bag	1	0.02
4	หลอดฟลูออเรสเซนต์	160215	ถึง 200 ลิตร	1	0.02

รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 0.1 ตัน ของแข็งกึ่งเหลว 0 ตัน

☐ น้ำหนักจริง ☒ น้ำหนักประมาณการ

ข้อควรระวังระหว่างการขนส่ง :

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ปริมาณที่ส่งมอบ : 0.1 ตัน
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม วันที่ส่งมอบ : 17/12/2567
 และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ เวลาที่ส่งมอบ :
 ลงชื่อผู้ก่อการ : [ลายมือชื่อ] มือชื่อ : วันที่ :

ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่ง
 จะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ
 ลงชื่อผู้ขับ : [ลายมือชื่อ] มือชื่อ : วันที่ :

☒ ผู้ก่อการได้นำภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว

ส่วนที่ ๓ ผู้รับดำเนินการ

ชื่อผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455

ส่วนที่ ๓/๑
 คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว
 ตามที่ระบุข้างต้นมาถึงสถานที่รับจัดการ
 ลงชื่อผู้รับดำเนินการ : [ลายมือชื่อ] ลายมือชื่อ :
 ขนส่งจากจังหวัด : ระยอง มายังจังหวัด : ชลบุรี
 ใช้ระยะเวลา : 1 วัน
 วันที่มาถึง : 17/12/2567
 เวลาที่มาถึง : 10:23

ส่วนที่ ๓/๒
 คำรับรอง : ข้าพเจ้าขอรับรองว่าบริหารจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ปริมาณที่รับมอบ : 0.56 ตัน
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม ☒ น้ำหนักจริง ☐ น้ำหนักประมาณการ
 ลงชื่อผู้รับดำเนินการ : [ลายมือชื่อ] ลายมือชื่อ : วันที่ :
 วันที่รับมอบ : 19/12/2567 เวลาที่มอบ : 13:20
☒ ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และ/หรือ
☐ เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

ส่วนที่ ๓/๓
 คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ปริมาณที่จัดการแล้วเสร็จ : 0.56 ตัน
 ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต วันที่จัดการแล้วเสร็จ : 23/12/2567 เวลาที่จัดการแล้วเสร็จ : 11:40
 ลงชื่อผู้รับดำเนินการ : [ลายมือชื่อ] ลายมือชื่อ : วันที่ :
 ปริมาณคงเหลือ : 0 ตัน
☒ ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง

ส่วนที่ ๔ ผู้ก่อการสรุปผลการจัดการ

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น
☐ ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)
☐ ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๕)
☐ ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)
☐ ได้รับการจัดการแล้วเสร็จโดยผู้จัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)
 ลงชื่อผู้ก่อการ : [ลายมือชื่อ] ลายมือชื่อ : วันที่ :

เลขที่อ้างอิง J-20-1167-133639-0-N

เอกสารแสดงการจัดการ (Manifest Form)

ส่วนที่ ๑ ผู้กักนำเน็ด

ชื่อผู้กักนำเน็ด : บริษัท ดานิลี จำกัด เลขทะเบียนโรงงาน : 72230200125496
 สถานที่ตั้งโรงงาน : 64/212 หมู่ที่ 4 ถนน ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
 เบอร์โทรศัพท์ต่อ : เบอร์โทรศัพท์ต่อฉุกเฉิน :
 ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว :
 ชื่อผู้ขับขี่ : สมพงษ์ เพทยานต์ เลขทะเบียนพาหนะ : 52-3878 กท พาหนะที่ใช้ : รถพ่วง
 โดยขนส่งจากจังหวัด : ระยอง ไปยังจังหวัด : ชลบุรี ใช้ระยะเวลาประมาณ : 3 วัน
 ผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455
 สถานที่ตั้ง : 88 หมู่ที่ 8 ถนนทางหลวง 331 กิโลเมตร 91-92 ตำบลอวน อำเภอสรีราชา จังหวัดชลบุรี 20230
 เบอร์โทรศัพท์ต่อ : เบอร์โทรศัพท์ต่อฉุกเฉิน :

รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ที่ขนส่ง :

ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	รหัสประเภท หรือชนิด	ภาชนะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	Garnet	120116	Box	1	10.63

รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 10.63 ตัน ของแข็งกึ่งเหลว 0 ตัน

[] น้ำหนักชั่งจริง [/] น้ำหนักประมาณการ

ขอความร่วมมือระหว่างขนส่ง :

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ปริมาณที่ส่งมอบ : 10.63 ตัน
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม วันที่ส่งมอบ : 28/11/2567
 และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ เวลาที่ส่งมอบ : 15.43 น.
 ลงชื่อผู้กักนำเน็ด : [ลายมือ] วันที่ : 28/11/67

ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่ง
 จะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ

ลงชื่อผู้ขับขี่ : [ลายมือ] วันที่ : 28-11-67

[] ผู้กักนำเน็ดแนบภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว

ส่วนที่ ๓ ผู้รับดำเนินการ

ชื่อผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455

ส่วนที่ ๓/๑
 คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว
 ตามที่ระบุข้างต้นมาถึงสถานที่รับจัดการ
 ลงชื่อผู้รับดำเนินการ : [ลายมือ] ลายมือชื่อ : [ลายมือ] วันที่ : 29/11/24
 เวลาที่มาถึง : 05:00

ส่วนที่ ๓/๒
 คำรับรอง : ข้าพเจ้าขอรับรองว่ารับจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ปริมาณที่รับมอบ : 10.29 ตัน
 ซึ่งมีการบรรจุ ติดป้าย [] น้ำหนักชั่งจริง [] น้ำหนักประมาณการ
 ลงชื่อผู้รับดำเนินการ : [ลายมือ] วันที่ : 3/12/24 เวลาที่มอบ : 10:40 น.
 [] ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว และ/หรือ
 [] เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

ส่วนที่ ๓/๓
 คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ปริมาณที่จัดการแล้วเสร็จ : 10.20 ตัน
 ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต วันที่จัดการแล้วเสร็จ : 3/12/24 เวลาที่จัดการแล้วเสร็จ : 12:00 น.
 ลงชื่อผู้รับดำเนินการ : [ลายมือ] ปริมาณคงเหลือ : 0 ตัน
 [] ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง

ส่วนที่ ๔ ผู้กักนำเน็ดสรุปผลการจัดการ

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น
 [] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)
 [] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๔)
 [] ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)
 [] ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)
 ลงชื่อผู้กักนำเน็ด : [ลายมือ] ลายมือชื่อ : [ลายมือ] วันที่ : [ลายมือ]

A-

เอกสารแสดงการจัดการ (Manifest Form)

ส่วนที่ ๑ ผู้ก่อกำเนิด

ชื่อผู้ก่อกำเนิด : บริษัท ดานีส จำกัด

เลขทะเบียนโรงงาน : 72230200125496

สถานที่ตั้งโรงงาน : 64/212 หมู่ที่ 4 ถนน ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

เบอร์โทรติดต่อ :

เบอร์โทรติดต่อฉุกเฉิน :

ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว :

ชื่อผู้ขับขี่ : วิเชียร ทับทิว

เลขทะเบียนพาหนะ : 87-2117 ขบ พาหนะที่ใช้ : รถบรรทุก

โดยขนส่งจากจังหวัด : ระยอง

ไปยังจังหวัด : ชลบุรี

ใช้ระยะเวลาประมาณ : 3 วัน

ผู้รับดำเนินการ : บริษัท วินด์มิลล์ สแครพ แอนด์ รีไซเคิล เซอร์วิส อินเตอร์เนชั่นแนล จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 10200077625667

สถานที่ตั้ง : 9/16 หมู่ที่ 1 ถนน ตำบลหนองข่าซาก อำเภอบ้านบึง จังหวัดชลบุรี 20170

เบอร์โทรติดต่อ :

เบอร์โทรติดต่อฉุกเฉิน :

รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ที่ขนส่ง :

ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว	รหัสประเภท หรือชนิด	ลักษณะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	Steel scrap Cutting Slag	120101	Box	1	22.26

รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 22.26 ตัน ของแข็งกึ่งเหลว 0 ตัน

[] น้ำหนักชั่งจริง [✓] น้ำหนักประมาณการ

ขอความร่วมมือระหว่างขนส่ง :

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น

ปริมาณที่ส่งมอบ : 22.26 ตัน

ซึ่งมีการบรรจุ ตัดป้าย หรือฉลากอย่างเหมาะสม

วันที่ส่งมอบ : 11/12/2567

และการขนส่งจะปฏิบัติตามข้อกำหนดของกรมโรงงานอุตสาหกรรม

เวลาที่ส่งมอบ : 10-49 น.

ลงชื่อผู้ก่อกำเนิด

วันที่ : 11/12/67

ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ตัดป้าย หรือฉลากอย่างเหมาะสม และการขนส่ง

จะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ

ลงชื่อผู้ขับขี่ :

วันที่ : 11-12-67

[] ผู้ก่อกำเนิดได้นำภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว

ส่วนที่ ๓ ผู้รับดำเนินการ

ชื่อผู้รับดำเนินการ : บริษัท วินด์มิลล์ สแครพ แอนด์ รีไซเคิล เซอร์วิส อินเตอร์เนชั่นแนล

เลขทะเบียนโรงงาน (ถ้ามี) : 10200077625667

ส่วนที่ ๓/๑

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

ขนส่งจากจังหวัด : ระยอง

มายังจังหวัด : ชลบุรี

ตามที่ระบุข้างต้นมาถึงสถานที่จัดการ

ใช้ระยะเวลา :

วัน

ลงชื่อผู้รับดำเนินการ :

วันที่มาถึง : 11/12/67

เวลาที่มาถึง : 11.02 น.

ส่วนที่ ๓/๒

คำรับรอง : ข้าพเจ้าขอรับรองว่าบริหารจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น

ปริมาณที่รับมอบ : 22.26 ตัน

ซึ่งมีการบรรจุ ตัดป้าย หรือฉลากอย่างเหมาะสม

[] น้ำหนักชั่งจริง [✓] น้ำหนักประมาณการ

ลงชื่อผู้รับดำเนินการ :

วันที่ : 11/12/67

วันที่รับมอบ : 11/12/67 เวลาที่มอบ : 11.00 น.

[] ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และ/หรือ

[] เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

ส่วนที่ ๓/๓

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

ปริมาณที่จัดการแล้วเสร็จ : 22.26 ตัน

ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต

วันที่จัดการแล้วเสร็จ : 11/12/67 เวลาที่จัดการแล้วเสร็จ : 16.05 น.

ลงชื่อผู้รับดำเนินการ :

วันที่ : 11/12/67

ปริมาณคงเหลือ : 0 ตัน

[✓] ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง

ส่วนที่ ๔ ผู้ก่อกำเนิดสรุปผลการจัดการ

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น

[✓] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)

[] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๔)

[] ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)

[] ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)

ลงชื่อผู้ก่อกำเนิด :

ลายมือชื่อ :

วันที่ :

๓

เลขที่อ้างอิง 3-20-1267-055890-0-N

เอกสารแสดงการจัดการ (Manifest Form)

ส่วนที่ ๑ ผู้ก่อกำเนิด

ชื่อผู้ก่อกำเนิด : บริษัท ดาเนิส จำกัด เลขทะเบียนโรงงาน : 72230000225488
 สถานที่ตั้งโรงงาน : 64/210 หมู่ที่ 4 ถนน ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
 เบอร์โทรศัพท์ติดต่อ : เบอร์โทรศัพท์มือถือ :

ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว :

ชื่อผู้ขับขี่ : คมสันต์ เนินภู เลขทะเบียนพาหนะ : 72-1638 รย พาหนะที่ใช้ : รถบรรทุก
 โดยขนส่งจากจังหวัด : ระยอง ไปยังจังหวัด : ชลบุรี ใช้ระยะเวลาประมาณ : 3 วัน

ผู้รับดำเนินการ : บริษัท วินดิมิล สแควพ แอนด์ รีไซเคิล เซอร์วิส อินเตอร์เนชั่นแนล จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 10200077625667

สถานที่ตั้ง : 9/16 หมู่ที่ 1 ถนน ตำบลหนองช้างซาก อำเภอบ้านบึง จังหวัดชลบุรี 20170

เบอร์โทรศัพท์ติดต่อ : เบอร์โทรศัพท์มือถือ :

รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ที่ขนส่ง :

ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	รหัสประเภท หรือชนิด	ภาชนะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	Turning Scrap Steel Scrap	120101	Box	1	16.6

รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 16.6 ตัน ของแข็งกึ่งเหลว 0 ตัน

[] น้ำหนักชั่งจริง [X] น้ำหนักประมาณการ

ขอความร่วมมือระหว่างขนส่ง :

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ปริมาณที่ส่งมอบ : 16.6 ตัน
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม วันที่ส่งมอบ : 11/12/2567
 และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ เวลาที่ส่งมอบ : 15.00 น.
 ลงชื่อผู้ก่อกำเนิด : [ลายมือชื่อ] วันที่ : 11/12/67

ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่ง
 จะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ

ลงชื่อผู้ขับขี่ : [ลายมือชื่อ] วันที่ : 11-12-67

[] ผู้ก่อกำเนิดได้แนบภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว

ส่วนที่ ๓ ผู้รับดำเนินการ

ชื่อผู้รับดำเนินการ : บริษัท วินดิมิล สแควพ แอนด์ รีไซเคิล เซอร์วิส อินเตอร์เนชั่นแนล เลขทะเบียนโรงงาน (ถ้ามี) : 10200077625667

ส่วนที่ ๓/๑
 คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว
 ตามที่ระบุข้างต้นมาถึงสถานที่รับจัดการ
 ลงชื่อผู้รับดำเนินการ : [ลายมือชื่อ] วันที่ : 11/12/67
 ขนส่งจากจังหวัด : ระยอง มายังจังหวัด : ชลบุรี
 ใช้ระยะเวลา : 1 วัน
 วันที่มาถึง : 11/12/67
 เวลาที่มาถึง : 16.25 น.

ส่วนที่ ๓/๒
 คำรับรอง : ข้าพเจ้าขอรับรองว่ารับจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ปริมาณที่รับมอบ : 16.6 ตัน
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม [] น้ำหนักชั่งจริง [X] น้ำหนักประมาณการ
 ลงชื่อผู้รับดำเนินการ : [ลายมือชื่อ] วันที่ : 11/12/67 วันที่รับมอบ : 11/12/67 เวลาที่มอบ : 16.00 น.
 [] ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว และ/หรือ
 [] เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

ส่วนที่ ๓/๓
 คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ปริมาณที่จัดการแล้วเสร็จ : 16.6 ตัน
 ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต วันที่จัดการแล้วเสร็จ : 12/12/67 เวลาที่จัดการแล้วเสร็จ : 11.00 น.
 ลงชื่อผู้รับดำเนินการ : [ลายมือชื่อ] วันที่ : 12/12/67 ปริมาณคงเหลือ : 0 ตัน
 [X] ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง

ส่วนที่ ๔ ผู้ก่อกำเนิดสรุปผลการจัดการ

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น

- [X] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)
 [] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๔)
 [] ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)
 [] ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)

ลงชื่อผู้ก่อกำเนิด : [ลายมือชื่อ] วันที่ :

or

เลขที่อ้างอิง 1-20-1267-126808-0-N

เอกสารแสดงการจัดการ (Manifest Form)					
ส่วนที่ ๑ ผู้ก่อการ					
ชื่อผู้ก่อการ : บริษัท ดานีส จำกัด			เลขทะเบียนโรงงาน : 72230000225488		
สถานที่ตั้งโรงงาน : 64/210 หมู่ที่ 4 ถนน ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140					
เบอร์โทรศัพท์ติดต่อ :			เบอร์โทรติดต่อฉุกเฉิน :		
ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว :					
ชื่อผู้ขับขี่ : ศิริพงษ์ ฝาปาฝา			เลขทะเบียนพาหนะ : 73-7643 ขบ พาหนะที่ใช้ : รถแท้งค์		
โดยขนส่งจากจังหวัด : ระยอง			ไปยังจังหวัด : ชลบุรี		
			ใช้ระยะเวลาประมาณ : 1 วัน		
ผู้รับดำเนินการ : บริษัท ไทย อินสตี วัน แมเนจ แอนด์ เซอร์วิส จำกัด			เลขทะเบียนโรงงาน (ถ้ามี) : 10200101025561		
สถานที่ตั้ง : 387/19 หมู่ที่ 2 ถนน- ตำบลเขาคันทรอง อำเภอสรรพยา จังหวัดชัยภูมิ 20110					
เบอร์โทรศัพท์ติดต่อ :			เบอร์โทรติดต่อฉุกเฉิน :		
รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ที่ขนส่ง :					
ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว	รหัสประเภท หรือชนิด	ภาชนะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	Mix Solvent	140603	บ่อ	1	4.6
รวมปริมาณทั้งหมด : ของเหลว 4.6 ตัน ของแข็ง 0 ตัน ของแข็งกึ่งเหลว 0 ตัน					
<input type="checkbox"/> น้ำหนักจริง <input checked="" type="checkbox"/> น้ำหนักประมาณการ					
ข้อควรระวังระหว่างการขนส่ง :					
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น			ปริมาณที่ส่งมอบ : 4.6 ตัน		
ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม			วันที่ส่งมอบ : 26/12/2567		
และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ			เวลาที่ส่งมอบ : 14.02 น.		
ลงชื่อผู้ก่อการ : [Redacted]			วันที่ : 26/12/24		
ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว					
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ					
ลงชื่อผู้ขับขี่ : [Redacted]			วันที่ : 26-12-67		
<input checked="" type="checkbox"/> ผู้ก่อการได้แนบภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว					
ส่วนที่ ๓ ผู้รับดำเนินการ					
ชื่อผู้รับดำเนินการ : บริษัท ไทย อินสตี วัน แมเนจ แอนด์ เซอร์วิส จำกัด			เลขทะเบียนโรงงาน (ถ้ามี) : 10200101025561		
ส่วนที่ ๓/๑			ขนส่งจากจังหวัด : ระยอง		
คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว			มายังจังหวัด : ชลบุรี		
ตามที่ระบุข้างต้นมาถึงสถานที่รับมอบ			ใช้ระยะเวลา : 1 วัน		
ลงชื่อผู้รับดำเนินการ : [Redacted]			วันที่มาถึง : 26/12/67		
			เวลาที่มาถึง : 15.15 น.		
ส่วนที่ ๓/๒			ปริมาณที่รับมอบ : 4.6 ตัน		
คำรับรอง : ข้าพเจ้าขอรับรองว่ารับจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น			<input checked="" type="checkbox"/> น้ำหนักจริง <input type="checkbox"/> น้ำหนักประมาณการ		
ซึ่งมีการบรรจุ ติดป้าย			วันที่รับมอบ : 26/12/67		
ลงชื่อผู้รับดำเนินการ : [Redacted]			เวลาที่รับมอบ : 15.25 น.		
			<input checked="" type="checkbox"/> ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และ/หรือ		
			<input type="checkbox"/> เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว		
ส่วนที่ ๓/๓			ปริมาณที่จัดการแล้วเสร็จ : 4.6 ตัน		
คำรับรอง : ข้าพเจ้าขอรับรองว่าจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว			วันที่จัดการแล้วเสร็จ : 27/12/67		
ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต			เวลาที่จัดการแล้วเสร็จ : 16.00 น.		
ลงชื่อผู้รับดำเนินการ : [Redacted]			ปริมาณคงเหลือ : 0 ตัน		
			<input checked="" type="checkbox"/> ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง		
ส่วนที่ ๔ ผู้ก่อการสรุปผลการจัดการ					
คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้วตามที่ระบุข้างต้น					
<input checked="" type="checkbox"/> ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)					
<input type="checkbox"/> ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๕)					
<input type="checkbox"/> ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)					
<input type="checkbox"/> ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)					
ลงชื่อผู้ก่อการ : [Redacted]					
ลายมือชื่อ : [Redacted]					
วันที่ : [Redacted]					

On

เอกสารแสดงการจัดการ (Manifest Form)

ส่วนที่ ๑ ผู้ก่อกำเนิด

ชื่อผู้ก่อกำเนิด : บริษัท ดานีส จำกัด เลขทะเบียนโรงงาน : 72230000225488
 สถานที่ตั้งโรงงาน : 64/210 หมู่ที่ 4 ถนน ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
 เบอร์โทรศัพท์ติดต่อ : เบอร์โทรศัพท์ติดต่อฉุกเฉิน :

ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว :

ชื่อผู้ขับขี่ : สุรินทร์ จันทร์ทอง เลขทะเบียนพาหนะ : 98-1323 กท พาหนะที่ใช้ : รถบรรทุก
 โดยขนส่งจากจังหวัด : ระยอง ไปยังจังหวัด : ชลบุรี ใช้ระยะเวลาประมาณ : 3 วัน

ผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455
 สถานที่ตั้ง : 88 หมู่ที่ 8 ถนนทางหลวง 331 กิโลเมตร 91-92 ตำบลบ่อวิน อำเภอสัตร์ราชา จังหวัดชลบุรี 20230
 เบอร์โทรศัพท์ติดต่อ : เบอร์โทรศัพท์ติดต่อฉุกเฉิน :

รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ที่ขนส่ง :

ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	รหัสประเภท หรือชนิด	ลักษณะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	ภาชนะปนเปื้อน	150110	Box1.5M3	4	0.35

รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 0.35 ตัน ของแข็งกึ่งเหลว 0 ตัน

☒ น้ำหนักชั่งจริง ☐ น้ำหนักประมาณการ

ข้อควรระวังระหว่างการขนส่ง :

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ
 ลงชื่อผู้ก่อกำเนิด : [redacted] วันที่ : 8/11/67 ปริมาณที่ส่งมอบ : 0.35 ตัน
 วันที่ส่งมอบ : 08/11/2567
 เวลาที่ส่งมอบ : 19.06 น.

ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ

ลงชื่อผู้ขับขี่ : [redacted] วันที่ : 8/11/24
☐ ผู้ก่อกำเนิดเห็นสมควรให้เอกสารการแจ้งการทิ้งกากของเสียในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว

ส่วนที่ ๓ ผู้รับดำเนินการ

ชื่อผู้รับดำเนินการ : บริษัท อีสเทิร์น ซีบอร์ด เอนไวรอนเมนทอล คอมเพล็กซ์ จำกัด เลขทะเบียนโรงงาน (ถ้ามี) : 72080000125455

ส่วนที่ ๓/๑
 คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว
 ตามที่ระบุข้างต้นมาถึงสถานที่รับจัดการ
 ลงชื่อผู้รับดำเนินการ : [redacted] วันที่ : 9/11/24
 ขนส่งจากจังหวัด : ระยอง มายังจังหวัด : ชลบุรี
 ใช้ระยะเวลา : 1 วัน
 วันที่มาถึง : 9/11/24
 เวลาที่มาถึง : 05:00

ส่วนที่ ๓/๒
 คำรับรอง : ข้าพเจ้าขอรับรองว่ารับจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น
 ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม
 ลงชื่อผู้รับดำเนินการ : [redacted] วันที่ : 9/11/24
 ปริมาณที่รับมอบ : 0.35 ตัน
☒ น้ำหนักชั่งจริง ☐ น้ำหนักประมาณการ
 วันที่รับมอบ : 9/11/24 เวลาที่มอบ : 06:00 น.
☒ ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว และ/หรือ
☐ เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

ส่วนที่ ๓/๓
 คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว
 ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต
 ลงชื่อผู้รับดำเนินการ : [redacted] วันที่ : 11/11/24
 ปริมาณที่จัดการแล้วเสร็จ : 0.35 ตัน
 วันที่จัดการแล้วเสร็จ : 11/11/24 เวลาที่จัดการแล้วเสร็จ : 18:00 น.
 ปริมาณคงเหลือ : 0 ตัน
☒ ภาพถ่ายเอกสารการจัดการที่ส่งนามครบถ้วนถูกต้อง

ส่วนที่ ๔ ผู้ก่อกำเนิดสรุปผลการจัดการ

คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น
☒ ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)
☐ ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๕)
☐ ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)
☐ ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)
 ลงชื่อผู้ก่อกำเนิด : [redacted] ลายมือชื่อ : [redacted] วันที่ : [redacted]

ใบกำกับการขนส่งวัสดุที่ไม่ใช่แล้วประเภทขยะอุตสาหกรรมไม่อันตรายและขยะมูลฝอย/
INDUSTRIAL NON-HAZARDOUS AND COMMERCIAL WASTE MANIFEST

หมายเลขใบกำกับการขนส่ง Manifest No.	ESB1241282412(1429)	เดือน/Month :	1 - 31 December	2024
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว WASTE PRODUCER		หมายเลขกากของเสีย Waste Profile No.	007420	
ชื่อ-ที่อยู่ ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer's Name and mailing address :				
บริษัท กัลฟ์ วีทีพี จำกัด Gulf VTP Company Limited. 525 หมู่ 4, ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140 ชื่อบุคคลที่รับผิดชอบ / Contact person : คุณพิเชษ ศรีแสน	ประเภทขนส่ง (Type of Transportation) REL Truck/6 or 10 wheel truck Industrial Estate EASTERN SEABOARD INDUSTRIAL ESTATE หมายเลขทะเบียนรถ (Registration No.) : หมายเลขกระบะ/Box No. :			

วัน ที่/ Day			
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13	/		
14			
15			
16			

หมายเหตุ/Note :
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว
Producer : declare
เป็นการจัดเก็บขยะ
These waste are

ผู้

ชื่อ-ที่อยู่ผู้ขนส่ง

ท เวสต์แมน

วอช/142 หมู่ที่ 12

เขตบางนา กรุงเทพฯ

โทรศัพท์ 0 2745 6

ผู้ขนส่ง : ขาพเจ้า

ตามข้อกำหนดของ

Transporter : dec

mentioned above

ข้าพเจ้าขอรับรองว่า

ของกฎหมาย * : T

type and quantity

been transported

ชื่อ-สกุล : Name

ลายเซ็น : Signat

* วัสดุที่ไม่ใช่แล้วที่มี

น้ำหนักโดยเฉลี่ย

707/6

5.00 M3 Bin

550

Effective date : 15/07/2024

ใบกำกับการขนส่งวัสดุที่ไม่ใช่แล้วประเภทขยะอุตสาหกรรมไม่อันตรายและขยะมูลฝอย/
INDUSTRIAL NON-HAZARDOUS AND COMMERCIAL WASTE MANIFEST

หมายเลขใบกำกับการขนส่ง Manifest No.		ESB1241282411(1429)		เดือน/Month :		1 - 30 November		2024			
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว WASTE PRODUCER				หมายเลขกากของเสีย Waste Profile No.						007420	
ชื่อ-ที่อยู่ ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer's Name and mailing address :				ประเภทรถขนส่ง (Type of Transportation)						REL Truck/6 or 10 wheel truck	
บริษัท กัลฟ์ วีทีพี จำกัด				Industrial Estate						EASTERN SEABOARD INDUSTRIAL ESTATE	
Gulf VTP Company Limited.				หมายเลขทะเบียนรถ (Registration No.) :							
525 หมู่ 4, ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140				หมายเลขกระบะ/Box No. :							
ข้อมูลคนที่รับผิดชอบ / Contact person : คุณพิเชษฐ ศรีแสน											
วันที่/Day				ลายเซ็น Signature		วันที่/Day				ลายเซ็น Signature	
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14											
15		/		X							
16											
หมายเหตุ/Note :											
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว : Producer : declares that the waste is not hazardous and is being kept for reuse or recycling. These waste are kept for reuse or recycling.											
ผู้ขนส่ง											
ชื่อ-ที่อยู่ผู้ขนส่ง Tran											
บริษัท เวสต์แมนเนจเม้นท์											
100/142 หมู่ที่ 12 อากาศ											
เขตบางนา กรุงเทพมหานคร											
โทรศัพท์ 0 2745 6926											
ผู้ขนส่ง : ข้าพเจ้าขอรับ											
ตามข้อกำหนดของกฎ											
Transporter : declare											
mentioned above and											
ข้าพเจ้าขอรับรองว่าได้											
ของกฎหมาย * : Trans											
type and quantity of											
been transported acco											
ชื่อ-สกุล : Name											
ลายเซ็น : Signature											
* วัสดุที่ไม่ใช่แล้วที่มีอยู่											
น้ำหนักโดยเฉลี่ยตาม											
70665											

ใบกำกับการขนส่งวัสดุที่ไม่ใช่แล้วประเภทขยะอุตสาหกรรมไม่อันตรายและขยะมูลฝอย/
INDUSTRIAL NON-HAZARDOUS AND COMMERCIAL WASTE MANIFEST

หมายเลขใบกำกับการขนส่ง Manifest No.	ESB1241282410(1429)	เดือน/Month :	1 - 31 October	2024
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว WASTE PRODUCER		หมายเลขกากของเสีย Waste Profile No.	007420	
ชื่อ-ที่อยู่ ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer's Name and mailing address :				
บริษัท กอล์ฟ วีทีพี จำกัด Gulf VTP Company Limited. 525 หมู่ 4, ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140				
ชื่อบุคคลที่รับผิดชอบ / Contact person :	คุณพิเชษฐ ศรีแสน	ประเภทรถขนส่ง (Type of Transportation)	REL Truck/6 or 10 wheel truck	
		Industrial Estate	EASTERN SEABOARD INDUSTRIAL ESTATE	
		หมายเลขทะเบียนรถ (Registration No.) :		
		หมายเลขกระบะ/Box No. :		

วันที่/Day		ลายเซ็น Signature	วันที่/Day		ลายเซ็น Signature
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1.25 M					
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16					

หมายเหตุ/Note :
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว
Producer : declares
เป็นการจัดเก็บขยะรวม
These waste are ke

ผู้ขนส่ง

ชื่อ-ที่อยู่ผู้ขนส่ง Trans

บริษัท เวสท์แมเนจเม้นท์

, 142 หมู่ที่ 12 อ

เขตบางนา กรุงเทพมหานคร

โทรศัพท์ 0 2745 692

ผู้ขนส่ง : ข้าพเจ้าขอ

ตามข้อกำหนดของกฎ

Transporter : declar

mentioned above an

ข้าพเจ้าขอรับรองว่าได

ของกฎหมาย * : Tra

type and quantity of

been transported ac

ชื่อ-สกุล : Name

ลายเซ็น : Signature

* วัสดุที่ไม่ใช่แล้วที่มี

น้ำหนักโดยเฉลี่ยตาม

3.00 M3 Bin

330

ทั่วไป

0.00

5.00 M3 Bin

550

ใบกำกับการขนส่งวัสดุที่ไม่ใช่แล้วประเภทขยะอุตสาหกรรมไม่อันตรายและขยะมูลฝอย/
INDUSTRIAL NON-HAZARDOUS AND COMMERCIAL WASTE MANIFEST

หมายเลขใบกำกับการขนส่ง Manifest No.		ESB1241282409(1429)		เดือน/Month :		1 - 30 September		2024			
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว WASTE PRODUCER				หมายเลขกากของเสีย Waste Profile No.						007420	
ชื่อ-ที่อยู่ ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer's Name and mailing address :				ประเภทขนส่ง (Type of Transportation)						REL Truck/6 or 10 wheel truck	
บริษัท กัลฟ์ วีทีพี จำกัด				Industrial Estate						EASTERN SEABOARD INDUSTRIAL ESTATE	
Gulf VTP Company Limited.				หมายเลขทะเบียนรถ (Registration No.) :							
525 หมู่ 4, ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140				หมายเลขกระบะ/Box No. :							
ชื่อบุคคลที่รับผิดชอบ / Contact person : คุณพิเชษ ศรีแสน											
วันที่/Day				ลายเซ็น Signature				วันที่/Day			
125 M											
01											
02											
03											
04											
05											
06											
08											
09											
10											
11											
12											
13											
14											
15											
16											
หมายเหตุ/Note											
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว											
Producer : de											
เป็นการจัดเก็บ											
These waste											
ชื่อ-ที่อยู่ผู้ขนส่ง											
บริษัท เวสต์แ											
56-142 หมู่ 4											
เขตบางนา กรุงเทพมหานคร											
โทรศัพท์ 0 27											
ผู้ขนส่ง : ข้าพ											
ตามข้อกำหนด											
Transporter : mentioned at											
ข้าพเจ้าขอรับ											
ของกฎหมาย											
type and qual											
been transpo											
ชื่อ-สกุล : N											
ลายเซ็น : Si											
* วัสดุที่ไม่ใช่แล้ว											
น้ำหนักโดย											
20											
3.00 MS Unit											
550											

ใบกำกับการขนส่งวัสดุที่ไม่ใช่แล้วประเภทขยะอุตสาหกรรมไม่อันตรายและขยะมูลฝอย/
INDUSTRIAL NON-HAZARDOUS AND COMMERCIAL WASTE MANIFEST

หมายเลขใบกำกับการขนส่ง Manifest No. ESB1241282408(1429)		เดือน/ Month : 1 - 31 August 2024	
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว WASTE PRODUCER		หมายเลขกากของเสีย Waste Profile No. 007420	
ชื่อ-ที่อยู่ ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer's Name and mailing address : บริษัท กัลฟ์ วีทีพี จำกัด Gulf VTP Company Limited. 525 หมู่ 4,ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140		ประเภทขนส่ง (Type of Transportation) REL Truck/6 or 10 wheel truck Industrial Estate EASTERN SEABOARD INDUSTRIAL ESTATE	
ข้อมูลคนที่รับผิดชอบ / Contact person : คุณพิเชษ ศรีแสน		หมายเลขทะเบียนรถ (Registration No.) : หมายเลขกระบะ/Box No. :	
วัน ที่/ Day	ลายเซ็น Signature	วัน ที่/ Day	ลายเซ็น Signature
01			
02			
03			
04			
05			
06			
08			
09			
10			
11			
12			
13			
14			
15			
16			
หมายเหตุ/Note : ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer : declared as waste and is being transported for disposal. These waste are not to be used for any other purpose.			
ชื่อ-ที่อยู่ผู้ขนส่ง : บริษัท เวสต์แมเนจเม้นท์ จำกัด 142 หมู่ที่ 12 เขตบางนา กรุงเทพฯ โทรศัพท์ 0 2745 1234			
ผู้ขนส่ง : ขาพเจ้าชาย... ตามข้อกำหนดของ... Transporter : declared as mentioned above			
ขาพเจ้าขอรับรองว่า... ของกฎหมาย * : The type and quantity of waste has been transported as declared			
ชื่อ-สกุล : Name			
ลายเซ็น : Signature			
* วัสดุที่ไม่ใช่แล้วที่... นำหนักโดยเฉลี่ย...			

Effective date : 15/07/2024

ใบกำกับการขนส่งวัสดุที่ไม่ใช่แล้วประเภทขยะอุตสาหกรรมไม่อันตรายและขยะมูลฝอย/
INDUSTRIAL NON-HAZARDOUS AND COMMERCIAL WASTE MANIFEST

หมายเลขใบกำกับการขนส่ง Manifest No. ESB1241282407(1429)		เดือน/Month : 1 - 31 July 2024	
ผู้ผลิตวัสดุที่ไม่ใช่แล้ว WASTE PRODUCER		หมายเลขกากของเสีย Waste Profile No. 007420	
ชื่อ-ที่อยู่ ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer's Name and mailing address : บริษัท กัลฟ์ วิกิพี จำกัด Gulf VTP Company Limited. 525 หมู่ 4, ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140		ประเภทรถขนส่ง (Type of Transportation) REL Truck/6 or 10 wheel truck Industrial Estate EASTERN SEABOARD INDUSTRIAL ESTATE หมายเลขทะเบียนรถ (Registration No.) : หมายเลขกระบะ/Box No. :	
วันที่/Day	ลายเซ็น Signature	วันที่/Day	ลายเซ็น Signature
125 M			
01			
02			
03			
04			
05			
06			
08			
09			
10			
11			
12			
13			
14			
15			
16			
หมายเหตุ/Note ผู้ผลิตวัสดุที่ไม่ใช่แล้ว Producer : dec เป็นการจัดเก็บขยะ These waste a			
ชื่อ-ที่อยู่ผู้ขนส่ง บริษัท เวสต์แม 500/142 หมู่ที่ เขตบางนา กรุง โทรศัพท์ 0 274 ผู้ขนส่ง : ข้าพเจ้า ตามข้อกำหนดข Transporter : c mentioned abo ข้าพเจ้าขอรับรอง ของกฎหมาย * type and quan been transport			
ชื่อ-สกุล : Na			
ลายเซ็น : Sig			
* วัสดุที่ไม่ใช่แล้ว			
น้ำหนักโดยเฉลี่ย			
5.00 M3 Bin 550			

ภาคผนวก ก-13

บันทึกปริมาณน้ำทิ้ง และ BOD ที่ระบายลงสู่คลองหินลอย

คุณภาพน้ำทิ้งและปริมาณน้ำที่ระบายลงสู่คลองหินลอย ประจำปี 2567

เดือน	ปริมาณน้ำทิ้ง (ลบ.ม.ต่อเดือน)	ความเข้มข้น BOD (มก.ต่อลิตร)	ปริมาณน้ำทิ้ง (ลบ.ม./วัน)	น้ำหนักภาระอินทรีย์ (BOD Loading) (กก. BOD ต่อ วัน)	หมายเหตุ
ม.ค.	-	9.30	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
กพ.	-	8.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
มี.ค.	-	6.80	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
เม.ย.	-	2.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
พ.ค.	-	2.20	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
มิ.ย.	-	3.50	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
ก.ค.	-	2.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
ส.ค.	-	2.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
ก.ย.	-	2.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
ต.ค.	-	10.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
พ.ย.	-	2.00	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
ธ.ค.	-	7.80	-	-	ไม่มีการระบาย เนื่องจากเอามาผลิตเป็นน้ำ RO
ค่าเฉลี่ย	-	4.80	-	-	-

ภาคผนวก ก-14

ผังแม่บทโครงการและการใช้ประโยชน์ที่ดิน



ที่ อก 5102.3.3/ / 668

การนิคมอุตสาหกรรมแห่งประเทศไทย
618 ถนนนิคมมักกะสัน แขวงมักกะสัน
เขตราชเทวี กรุงเทพฯ 10400

30 พฤษภาคม 2566

เรื่อง การอนุมัติแก้ไขผังแม่บทนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ครั้งที่ 55

เรียน กรรมการผู้จัดการบริษัท อีสเทิร์น ซีบอร์ด อินดัสเตรียล เอสเตท (ระยอง) จำกัด

อ้างถึง คำขออนุมัติผังแม่บท เลขที่คำขอ ผ.009/2566 ลงวันที่ 29 มีนาคม 2566

ตามที่อ้างถึง บริษัท อีสเทิร์น ซีบอร์ด อินดัสเตรียล เอสเตท (ระยอง) จำกัด ได้ยื่นคำขออนุมัติแก้ไขผังแม่บทนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ครั้งที่ 55 ความละเอียดแจ้งแล้ว นั้น

การนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.) ได้พิจารณาแล้ว จึงอนุมัติให้บริษัทฯ แก้ไขผังแม่บทนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ครั้งที่ 55 ตามที่เสนอ โดยขอให้บริษัทฯ ชำระค่าบริการฯ (รวมภาษีมูลค่าเพิ่ม 7 %) รวมเป็นเงินทั้งสิ้น 14,177.50 บาท (หนึ่งหมื่นสี่พันหนึ่งร้อยเจ็ดสิบเจ็ดบาทห้าสิบบาทถ้วน) สำนักงานใหญ่ กนอ. และติดต่อกองบริการและกำกับดูแลโครงการนิคมอุตสาหกรรม (กคน.) ในการขอรับผังแม่บทที่ได้รับอนุมัติ เพื่อถ่ายสำเนาต้นฉบับไว้ใช้งาน ทั้งนี้ขอให้จัดทำหนังสือส่งคืนต้นฉบับพร้อมทั้งสำเนาผังแม่บทขนาดเท่าต้นฉบับ และขนาด A3 อย่างละ 5 ชุด แผ่นคอมแพคดิสก์ CD-R บันทึกข้อมูลของผังแม่บทนิคมฯ (FILE PDF และ FILE AutoCAD) ที่ตรงกับต้นฉบับพร้อมแนวคิดและหลักเกณฑ์การออกแบบที่ได้รับอนุมัติแล้ว จำนวน 1 ชุด ต่อ กนอ.ภายใน 15 วัน นับแต่วันที่ได้รับหนังสือฉบับนี้

เพื่อให้การดำเนินการเป็นไปตามมาตรา 39/1 และมาตรา 71/1 แห่งพระราชบัญญัติการนิคมอุตสาหกรรมแห่งประเทศไทย พ.ศ. 2522 ซึ่งแก้ไขเพิ่มเติมโดยพระราชบัญญัติการนิคมอุตสาหกรรมแห่งประเทศไทย (ฉบับที่ 4) พ.ศ. 2550 กนอ. จึงขอให้บริษัทฯ ดำเนินการขออนุญาตจัดสรรที่ดิน ต่อ กนอ. ภายใน 90 วัน นับแต่วันที่ได้รับหนังสือฉบับนี้ ให้ถูกต้องตามกฎหมายดังกล่าวด้วย

จึงเรียนมาเพื่อโปรดทราบ และดำเนินการในส่วนที่เกี่ยวข้องต่อไป จะขอบคุณยิ่ง

ขอแสดงความนับถือ



ผู้อำนวยการฝ่ายพัฒนาและวิศวกรรม ปฏิบัติงานแทน

ผู้ว่าการการนิคมอุตสาหกรรมแห่งประเทศไทย

ฝ่ายพัฒนาและวิศวกรรม

กองบริการและกำกับดูแลโครงการนิคมอุตสาหกรรม

โทรศัพท์ 0 2253 0561 ต่อ 3306 3321

ไปรษณีย์อิเล็กทรอนิกส์กลาง saraban@ieat.mail.go.th

ภาคผนวก ก-15

แผนการปฏิบัติงานงานดูแล landscape
และตัวอย่างการดำเนินงาน

แผนการปฏิบัติงาน
งานดูแลพื้นที่ Landscape

GPSS

โดย

บริษัท กรีนพ้อยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน กรกฎาคม พ.ศ. 2567

เสนอ

บริษัท อีสเทิร์นซีบอร์ด อินดัสเตรียลเอสเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดระยอง (ESIE)

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กรกฎาคม 2567

บริษัท กรีนพ้อยท์ เซอร์วิส โซลูชัน จำกัด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	งานดูแลสนามหญ้า (งานรดน้ำต้นไม้)																																		
	1.1 สนามหญ้าสายเมนขาเข้า-ออก																																		
	1.2 สนามหญ้า ESIE 1,2,4,6,6A,6B																																		
	1.3 สนามหญ้า ESIE 8,10,10B,10B/1																																		
	1.4 สนามหญ้า ESIE 5,5A,7,9																																		
	1.5 สนามหญ้า ESIE 16,14																																		
	1.6 สนามหญ้าเกาะกลาง ,S-24																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน

วันหยุด

[illegible][illegible]

[illegible]

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

[illegible]



แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กรกฎาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานคัดค้านวนน้อย																																		
	3.11 บริเวณ FACTORY L15																																		
	3.12 บริเวณ ESIE 11																																		
	3.13 บริเวณสายไฟแรงสูง																																		
	3.14 บริเวณทางเข้าซ้ายขวา R05-1																																		
	3.15 บริเวณทางเข้า K.14																																		
	3.16 บริเวณ ESIE 11																																		
	3.17 บริเวณ FACTORY ESIE 14																																		
	3.18 บริเวณ FACTORY ESIE เฟส 8																																		
	3.19 ตามเขต E 11																																		
	3.20 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		



แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กรกฎาคม 2567



ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานคัดค้านวนน้อย																																		
	3.21 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	3.22 บริเวณฝั่งขวากำแพง PX.15																																		
	3.23 บริเวณฝั่งซ้ายข้าง L.03																																		
	3..24 หน้าแปลง Q01,002บางส่วน																																		
	3.25 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	3.26 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	3.27 ถนน P-507 ซ้ายขวา																																		
	3.28 บริเวณริมถนนทางเข้า ESIE 9 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด



ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
4	แผนการคัดพันธุ์ธรรมชาติ																																		
	4.1 บ่อบำบัด ESIE 8																																		
	4.2 บ่อบำบัด ESIE 14																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เกือบขยะ																																		
	5.1 ถนนสายหลัก ESIE 14, 16 ,เฟส 6																																		
	5.2 ESIE 3, 3A, 3A/1 เฟส 5 ส่วนขยาย, เฟส 7																																		
	5.3 ESIE 1, 2, 4, 6																																		
	5.4 FACTORY 1, 2																																		
	5.5 ESIE 5, 7, 9																																		
	5.6 ESIE 8, 10, 10A																																		
	5.7 บริเวณทางเข้า ESIE 15																																		
	5.8 บริเวณ FACTORY L15																																		
	5.9 บริเวณ ESIE 11																																		
	5.10 บริเวณสายไฟฟ้าแรงสูง																																		

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แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กรกฎาคม 2567



ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.11 บริเวณทางเข้าซ้ายขวา R05-1																																		
	5.12 บริเวณทางเข้า K.14																																		
	5.13 บริเวณ ESIE 11																																		
	5.14 บริเวณ FACTORY ESIE 14																																		
	5.15 บริเวณ FACTORY ESIE เฟส 8																																		
	5.16 สวนแยก E 11																																		
	5.17 บริเวณ PX.30 คัดกักน้ำโรงงาน																																		
	5.18 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	5.19 บริเวณฝั่งขวากำแพง PX.15																																		
	5.20 บริเวณฝั่งซ้ายข้าง L.03																																		

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แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กรกฎาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.21 หน้าแปลง Q01.002บางส่วน																																		
	5.22 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	5.23 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	5.24 ถนน P-507 ซ้ายขวา																																		
	5.25 บริเวณถนน ESIE 10 (เฟส 10)																																		



หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลรักษาความสะอาดทุกบาท																																		
	6.1 บริเวณทางเข้า ESIE 15																																		
	6.2 บริเวณ FACTORY L15																																		
	6.3 บริเวณ ESIE 11																																		
	6.4 บริเวณสายไฟแรงสูง																																		
	6.5 บริเวณทางเข้าซ้ายขวา R05-1																																		
	6.6 บริเวณทางเข้า K.14																																		
	6.7 บริเวณ ESIE 11																																		
	6.8 บริเวณ FACTORY ESIE 14																																		
	6.9 บริเวณ FACTORY ESIE เฟส 8																																		
	6.10 สวนเอก E 11																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลรักษาความสะอาดทุกบาท																																		
	6.11 บริเวณ PX.30 คัดกักแผงหน้าโรงงาน																																		
	6.12 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	6.13 บริเวณฝั่งขวากำแพง PX.15																																		
	6.14 บริเวณฝั่งซ้ายข้าง L.03																																		
	6.15 หน้าแปลง Q01,002บางส่วน																																		
	6.16 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	6.17 Slope หน้าแปลง R05-L,R05-2บางส่วน																																		
	6.18 ถนน P-507 ซ้ายขวา																																		
	6.19 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

[illegible][illegible]

[illegible]

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

(-----)

นายบุญโชค สุวรรณศรี

អ្នកចាត់

[illegible]

[illegible][illegible]



แผนการปฏิบัติงานงานดูแลฐานวนน้อย ประจำเดือน กรกฎาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	แผนการปฏิบัติงานใส่ปุ๋ยฐานวนน้อย																																		
	1.31 กรมศุลกากร																																		
	1.32 พลาซ่า 1, 2																																		
	1.33 เฟลด์ และสนามฟุตบอล																																		
	1.34 โรงกรอง																																		

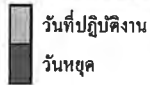
หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละ

ไร่ปุ๋ยสูตร 46-0-0 จำนวน 10 กระสอบ (500 ก.ก.)

ไร่ปุ๋ยสูตร 16-16-16 จำนวน 5 กระสอบ (250 ก.ก.)

ดินผสม จำนวน 50 ถุง (250 ก.ก.)

ปุ๋ยคอก จำนวน 100 ถุง (100 ก.ก.)



(.....)

นายบุญโชค สุวรรณศรี

ผู้จัดทำ

GREENPOINT SERVICE SOLUTION CO.,LTD

รายงานสรุปผลการดำเนินงาน
งานทำความสะอาดลอกอรัราง

GPSS

โดย

บริษัท กรีนพ้อยท์ เซอร์วิซ โซลูชั่น จำกัด

ประจำเดือน กรกฎาคม พ.ศ. 2567













เสนอ

บริษัท อีเอสทีเอ็นซีบีอาร์ อินดัสเตรียลเอสเตท (ระยอง) จำกัด
นิคมอุตสาหกรรมอีสทีเอ็นซีบีอาร์ระยอง (ESIE)

แผนการปฏิบัติงาน ESIE

เดือน กรกฎาคม 2567













ทำความสะอาดอรัราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สายหลักหน้า ทอจ่า 1			
	สายหลักหน้า ทอจ่า 1			
	สายหลักหน้าบ.กม			
	สายหลักหน้าบ.กม			

แผนการปฏิบัติงาน ESIE

เดือน กรกฎาคม 2567













ทำความสะอาดอรัราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	อรัรางสายหลักหน้าบ.ทอจ่า			
	อรัรางสายหลักหน้าบ.ทอจ่า			
	ข้างคันคองเบรค			
	ESIE 1			

แผนการปฏิบัติงาน ESIE













เดือน กรกฎาคม 2567

ทำความสะอาดอรัราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 1			
	ESIE 2			
	ESIE 2			
	ESIE 3			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดอาคาร

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3			
	ESIE 3 ทางเข้าชั้นกรรงสุภากร			
	ESIE 3 ทางเข้าชั้นกรรงสุภากร			
	ESIE 3A			



แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดอาคาร

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3A			
	ESIE 3B			
	ESIE 3B			
	P505			







แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดอาคาร

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	P505			
	ESIE 3			
	ESIE 3			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดอาคาร

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	P507			
	P507			
	ทางไปจวหา-ESIE 1			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 7			
	เฟส 7			
	ESIE 4			
	ESIE 4			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5			
	ESIE 5			
	ESIE 5A			
	ESIE 5A			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5B			
	ESIE 5B			
	ESIE 6			
	ESIE 6			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 6A			
	ESIE 6A			
	ESIE 6B			
	ESIE 6B			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดเส้นทาง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ตำรวจใหญ่ 5 24 ถนนปาร์กเกอร์			
	ถนน ปาร์กเกอร์			
	ถนน ปาร์กเกอร์			
	ESIE 7			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดเส้นทาง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 7			
	ESIE 8			
	ESIE 8			
	ESIE 8 หน้าบ่อน้ำบัพที่ 1			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดเส้นทาง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 8 หน้าบ่อน้ำบัพที่ 1			
	ESIE 9			
	ESIE 9			
	ESIE 10			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดเส้นทาง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 10			
	ESIE 10A			
	ESIE 10A			
	ESIE 10B			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 10B			
	ESIE 11			
	ESIE 11			
	ESIE 11			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 11			
	หน้าท่าเรือ 2			
	หน้าท่าเรือ 2			
	ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 14			
	ESIE 14			
	ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 16			
	ESIE 16			
	ทาง GW			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำควมสะอาดสระ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	จ้าง GWM			
	จ้าง สะเกต โทบ			
	จ้างสระน้ำ ESIE 3B			
	จ้างสระน้ำ ESIE 3B			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำควมสะอาดสระ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	จ้าง บ.ทองมั่งมี ESIE 14			
	จ้าง บ.ธนิษฐ ESIE 14			
	บ่อน้ำ ESIE 14			
	บ่อน้ำ ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำควมสะอาดสระ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บ่อน้ำ ESIE 14			
	จ้าง ดีไฟ ESIE 11			
	จ้าง ไทยโคเว ESIE 11			
	จ้างบมย์กสิ ESIE 11			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำควมสะอาดสระ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	จ้าง แม็กชี ESIE 11			
	จ้างบมย์กสิ ESIE 11			
	หลังบ. ไชยศักดิ์ เฟส 7			
	หลังบ. ไชยศักดิ์ เฟส 7			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ข้าง NRB ESIE 3			
	ข้าง NRB ESIE 3			
	หลัง โรงไฟฟ้า ESIE 7			
	ตรงข้ามถนน ไบโอส 16-14			




แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ข้างเขาวัว ESIE 7			
	ข้าง ลีวี			
	หลัง โรงไฟฟ้า ESIE 8			
	ตรงข้ามหลังบ้าน สิวาตกับใจพันธ์			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ข้าง ต.ขุนนาคี			
	ข้าง ต.ขุนนาคี			
	FACTORY ESIE 6			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY ESIE 6			
	FACTORY ESIE 6			
	FACTORY ESIE 14			
	FACTORY ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY ESIE 14			
	FACTORY เฟส 7 L 15			
	FACTORY เฟส 7 L 15			
	FACTORY เฟส 7 L 15			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY เฟส 7 L 15			
	ข้าง บึงหนอง			
	ตามใต้เสาไฟฟ้าแรงสูง			
	บริเวณทางข้ามบ่อ R05-1			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณทางข้ามบ่อ R05-1			
	ESIE 15			
	ESIE 15			
	ตามบ่อ ESIE 11-11.3&T			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ตามบ่อ ESIE 11-11.3&T			
	ด้านข้างอาคารB10 ESIE 14			
	ด้านข้างอาคารB10 ESIE 14			
	บริเวณFACTORY เฟส 8			













แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ภาพรวมสถานะการดำเนินงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณFACTORY เฟส 8			
	ด้านซ้าย R02F-R04A, R04B			
	ด้านซ้าย R02F-R04A, R04B			
	บริเวณ PX30 ติดกำแพงหน้าโรงงาน			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ภาพรวมสถานะการดำเนินงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณฝั่งขวาถนน PX.15			
	บริเวณฝั่งซ้าย L.08 เฟส 10			
	บริเวณฝั่งซ้าย L.08 เฟส 10			
	ถนนแปลง Q01-1, Q02 บางส่วน			

แผนการปฏิบัติงาน ESIE
เดือน กรกฎาคม 2567

ภาพรวมสถานะการดำเนินงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ถนนแปลง Q01-1, Q02 บางส่วน			
	เฟส 10			
	เฟส 10			

แผนการปฏิบัติงาน
งานดูแลพื้นที่ Landscape

GPSS

โดย

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน สิงหาคม พ.ศ. 2567

เสนอ

บริษัท อีสเทิร์นซีบอร์ด อินดัสเตรียลเอสเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดระยอง (ESIE)

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน สิงหาคม 2567

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	งานดูแลสนามหญ้า (งานรดน้ำต้นไม้)																																		
	1.1 สนามหญ้าสวนเมฆาเข้า-ออก																																		
	1.2 สนามหญ้า ESIE 1,2,4,6,6A,6B																																		
	1.3 สนามหญ้า ESIE 8,10,10B,10B/1																																		
	1.4 สนามหญ้า ESIE 5,5A,7,9																																		
	1.5 สนามหญ้า ESIE 16,14																																		
	1.6 สนามหญ้าเกาะกลาง ,S-24																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน
■ วันหยุด

[illegible][illegible]

[illegible]

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน



วันหยุด

[illegible]

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานคัดค้านวนน้อย																																		
	3.11 บริเวณ FACTORY L15																																		
	3.12 บริเวณ ESIE 11																																		
	3.13 บริเวณสายไฟแรงสูง																																		
	3.14 บริเวณทางเข้าซ้ายขวา R05-1																																		
	3.15 บริเวณทางเข้า K.14																																		
	3.16 บริเวณ ESIE 11																																		
	3.17 บริเวณ FACTORY ESIE 14																																		
	3.18 บริเวณ FACTORY ESIE เฟส 8																																		
	3.19 สามแยก E 11																																		
	3.20 บริเวณ PX.30 คัดค้านวนหน้าโรงงาน																																		



ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานคัดค้านวนน้อย																																		
	3.21 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	3.22 บริเวณฝั่งขวากำแพง PX.15																																		
	3.23 บริเวณฝั่งซ้ายข้าง L.03																																		
	3.24 หน้าแปลง Q01,002บางส่วน																																		
	3.25 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	3.26 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	3.27 ถนน P-507 ซ้ายขวา																																		
	3.28 บริเวณริมถนนทางเข้า ESIE 9 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
4	แผนการคัดเลือ้งารรวมชาติ																																		
	4.1 บ่อำบัก ESIE 8																																		
	4.2 บ่อำบัก ESIE 14																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด



 วันที่ปฏิบัติงาน
 วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดอาคารนอน ด้านถนน เก็บขยะ																																		
	5.1 ถนนสายหลัก ESIE 14, 16 ,เฟส 6																																		
	5.2 ESIE 3, 3A, 3A/1 เฟส 5 ส่วนชาย, เฟส 7																																		
	5.3 ESIE 1, 2, 4, 6																																		
	5.4 FACTORY 1, 2																																		
	5.5 ESIE 5, 7, 9																																		
	5.6 ESIE 8, 10, 10A																																		
	5.7 บริเวณทางเข้า ESIE 15																																		
	5.8 บริเวณ FACTORY L15																																		
	5.9 บริเวณ ESIE 11																																		
	5.10 บริเวณสายไฟแรงสูง																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.11 บริเวณทางเข้าซ้ายขวา R05-1																																		
	5.12 บริเวณทางเข้า K.14																																		
	5.13 บริเวณ ESIE 11																																		
	5.14 บริเวณ FACTORY ESIE 14																																		
	5.15 บริเวณ FACTORY ESIE เฟส 8																																		
	5.16 สวนแยก E 11																																		
	5.17 บริเวณ PX.30 คิดค่าแพคเกจโรงงาน																																		
	5.18 บริเวณรอกกลางทางไป WHA-ESIE1																																		
	5.19 บริเวณฝั่งขวากำแพง PX.15																																		
	5.20 บริเวณฝั่งซ้ายข้าง L.03																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.21 หน้าแปลง Q01,002บางส่วน																																		
	5.22 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	5.23 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	5.24 ถนน P-507 ซ้ายขวา																																		
	5.25 บริเวณถนน ESIE 10 (เฟส 10)																																		



หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสถานะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลรักษาความปลอดภัย																																		
	6.1 บริเวณทางเข้า ESIE 15																																		
	6.2 บริเวณ FACTORY L15																																		
	6.3 บริเวณ ESIE 11																																		
	6.4 บริเวณสายไฟแรงสูง																																		
	6.5 บริเวณทางเข้าซ้ายขวา R05-1																																		
	6.6 บริเวณทางเข้า K.14																																		
	6.7 บริเวณ ESIE 11																																		
	6.8 บริเวณ FACTORY ESIE 14																																		
	6.9 บริเวณ FACTORY ESIE เฟส 8																																		
	6.10 สามแยก E 11																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลทำความสะอาด																																		
	6.11 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		
	6.12 บริเวณร่องกลางทางไป WHA-ESIE I																																		
	6.13 บริเวณฝั่งขวากำแพง PX.15																																		
	6.14 บริเวณฝั่งซ้ายข้าง L.03																																		
	6.15 หน้าแปลง Q01,002บางส่วน																																		
	6.16 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	6.17 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	6.18 ถนน P-507 ซ้ายขวา																																		
	6.19 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

[illegible][illegible]

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
7	แผนการปฏิบัติงานทำความสะอาดอาคารต่างาง และเก็บขยะ																																		
	7.21 บริเวณฝั่งขวาที่แพง PX.15																																		
	7.22 บริเวณฝั่งซ้ายข้าง L.03																																		
	7.23 หน้าแปลง Q01,002บางส่วน																																		
	7.24 บริเวณ FACTORY ESIE I5 K.13,K14																																		
	7.25 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	7.26 ถนน P-507 ซ้ายขวา																																		
	7.27 บริเวณถนน ESIE IO (เฟส IO)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

[illegible]

นายบุญโชค ตววรรณศรี

ผู้จัดทำ

[illegible]

[illegible][illegible]

แผนการปฏิบัติงานงานดูแลฐานวนน้อย ประจำเดือน สิงหาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	แผนการปฏิบัติงานใส่ปุ๋ยฐานวนน้อย																																		
	1.31 กรมศุลกากร																																		
	1.32 พลจ่า 1, 2																																		
	1.33 แฟลค และสนามฟุตบอล																																		
	1.34 โรงกรอง																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละ

ใช้ปุ๋ยสูตร 46-0-0 จำนวน 10 กระสอบ (500 ก.ก.)

ใช้ปุ๋ยสูตร 16-16-16 จำนวน 5 กระสอบ (250 ก.ก.)

ดินผสม จำนวน 50 ถุง (250 ก.ก.)

ปุ๋ยคอก จำนวน 100 ถุง (100 ก.ก.)



วันที่ปฏิบัติงาน

วันหยุด

(.....)

นายปิยะ โยอยู่สุข

ผู้จัดทำ

GREENPOINT SERVICE SOLUTION CO.,LTD

รายงานสรุปผลการดำเนินงาน
งานตัดหญ้าสนามน้อย

GPSS

โดย

* บริษัท กรีนพอยท์ เซอร์วิส โซลูชั่น จำกัด

ประจำเดือน สิงหาคม พ.ศ. 2567

เสนอ

บริษัท อีแอสเทิร์นซีบอร์ด อินดัสตรียลเขต (ระยอง) จำกัด
นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดระยอง (ESIE)

แผนการปฏิบัติงาน ESIE

เดือน สิงหาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	วินาศพหลักหน้าพลาซ่า 1			
	วินาศพหลักหน้าพลาซ่า 1			
	เกาะกลางสายหลัก			
	สายหลักหน้าพลาซ่า			

แผนการปฏิบัติงาน ESIE

เดือน สิงหาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สายหลักหน้าพลาซ่า พลาซ่า			
	เกาะกลางหน้าพลาซ่า			
	วินาศพหลักหน้าพลาซ่า 5-10			
	วินาศพหลักหน้าพลาซ่า 5-10			

แผนการปฏิบัติงาน ESIE













เดือน สิงหาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เกาะกลางสายหลัก 5-10			
	ESIE 1			
	ESIE 1			
	ESIE 2			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

พฤษภาคม ๖๖

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 2			
	ESIE 3			
	ESIE 3			
	ESIE 3			


แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

พฤษภาคม ๖๖

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3			
	ทางเข้าบริเวณสวนสาธารณะ ESIE 3			
	ทางเข้าบริเวณสวนสาธารณะ ESIE 3			
	ESIE 3A			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

พฤษภาคม ๖๖

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3A			
	ESIE 3B			
	ESIE 3B			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

พฤษภาคม ๖๖

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ริมP506			
	ริมP506			
	เกาะกลางริมP506			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุม

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ทางไป WHA-ESIE1			
	ทางไป WHA-ESIE1			
	ฟุต 7			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุม

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ฟุต 7			
	ทางเชื่อมฟุต 7			
	ESIE 4			
	ESIE 4			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุม

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5			
	ESIE 5			
	ESIE 6			
	ESIE 6			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุม

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 6A			
	ESIE 6A			
	ESIE 6B			
	ESIE 6B			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พื้นที่ ป่าคอนกรีต			
	พื้นที่ ป่าคอนกรีต			
	ESIE 7			
	ESIE 7			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 8			
	ESIE 8			
	ESIE 8 พื้นที่ ป่าคอนกรีต 1			
	ESIE 8 พื้นที่ ป่าคอนกรีต 1			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 9			
	ESIE 9			
	ESIE 10			
	ESIE 10			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 10A			
	ESIE 10A			
	ESIE 10B			
	ESIE 10B			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้าหมวด ๑๐

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 11			
	ESIE 11			
	ESIE 11			
	ESIE 11			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้าหมวด ๑๐

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 14			
	ESIE 14			
	ESIE 14			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้าหมวด ๑๐

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 14			
	ESIE 16			
	ESIE 16			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้าหมวด ๑๐

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 16			
	ESIE 16			
	เกาะกลาง ESIE 16			
	หน้าหอ ซำ 2			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

เที่ยวแรกคือ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	หน้าพลาซ่า 2			
	เกาะกลางหน้าพลาซ่า 2			
	FACTORY 1 ESIE 6			
	FACTORY 1 ESIE 6			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

เที่ยวแรกคือ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY 1 ESIE 6			
	FACTORY 2 ESIE 14			
	FACTORY 2 ESIE 14			
	โหล่ง ESIE 1			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

เที่ยวแรกคือ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โหล่ง ESIE 1			
	โหล่ง ESIE 2			
	โหล่ง ESIE 2			
	โหล่ง ESIE 3			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

เที่ยวแรกคือ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โหล่ง ESIE 3			
	โหล่ง ESIE 3A			
	โหล่ง ESIE 3A			
	โหล่ง ESIE 4			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้ารวมกล้อง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 4			
	โพธิ์ทาง ESIE 5			
	โพธิ์ทาง ESIE 5			
	โพธิ์ทาง ESIE 6			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้ารวมกล้อง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 6			
	โพธิ์ทาง ESIE 6A			
	โพธิ์ทาง ESIE 6A			
	โพธิ์ทาง ESIE 7			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้ารวมกล้อง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 7			
	โพธิ์ทาง ESIE 8			
	โพธิ์ทาง ESIE 8			
	โพธิ์ทาง ESIE 10			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน้ารวมกล้อง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 10			
	บริเวณ FACTORY เฟส 7 (L15)			
	บริเวณ FACTORY เฟส 7 (L15)			
	บริเวณ FACTORY เฟส 7 (L15)			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สนามเด็ก ESIE เฟส 7			
	สนามเด็ก ESIE เฟส 7			
	เฟส 8			
	เฟส 8			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 8			
	เฟส 8			
	ทางเข้า ESIE 150 (แปลง 14)			
	ทางเข้า ESIE 150 (แปลง 14)			













แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สนามเด็ก ESIE 11-11.M&T			
	สนามเด็ก ESIE 11-11.M&T			
	พื้นที่ข้างอาคาร B10			
	บริเวณหลังจวนกับพ.ร.ก. 15			

แผนการปฏิบัติงาน ESIE
เดือน สิงหาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณหลังจวนกับพ.ร.ก. 15			
	บริเวณหลังจวนกับพ.ร.ก. 15			
	บริเวณหลังจวนกับพ.ร.ก. 15			
	บริเวณ FACTORY ESIE 15 (K13,K14)			

แผนการปฏิบัติงาน ESIE

เดือน สิงหาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณFACTORY ESIE 15 (K13,K14)			
	Stopหน้าแปลง R05-1, R05-2 บางส่วน			
	Stopหน้าแปลง R05-1, R05-2 บางส่วน			
	ถนน P507			

แผนการปฏิบัติงาน ESIE

เดือน สิงหาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ถนน P507			
	เฟส 10			
	เฟส 10			
	เฟส 10			

แผนการปฏิบัติงาน ESIE

เดือน สิงหาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 10			
	ส่วนขยายเฟส 9			
	ส่วนขยายเฟส 9			
	ส่วนขยายเฟส 7			

แผนการปฏิบัติงาน
งานดูแลพื้นที่ Landscape

GPSS

โดย

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน กันยายน พ.ศ. 2567

เสนอ

บริษัท อีสเทิร์นซีบอร์ด อินดัสเทรียลเอสเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดระยอง (ESIE)

GPSS

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กันยายน 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
1	งานดูแลตามหน้า (งานรดน้ำต้นไม้)																																	
	1.1 สนามหญ้าสนามหน้าเข้า-ออก																																	
	1.2 สนามหญ้า ESIE 1,2,4,6,6A,6B																																	
	1.3 สนามหญ้า ESIE 8,10,10B,10B/I																																	
	1.4 สนามหญ้า ESIE 5,5A,7,9																																	
	1.5 สนามหญ้า ESIE 16,14																																	
	1.6 สนามหญ้าเกาะกลาง ,S-24																																	

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

□ วันที่ปฏิบัติงาน
■ วันหยุด

[illegible][illegible]

[illegible]

วันที่ปฏิบัติงาน
วันหยุด

[illegible]



แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กันยายน 2567

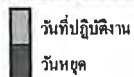
ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
3	แผนการปฏิบัติงานคัดแยกมูลฝอย																																	
	3.11 บริเวณ FACTORY L15																																	
	3.12 บริเวณ ESIE 11																																	
	3.13 บริเวณสายไฟแรงสูง																																	
	3.14 บริเวณทางเข้าซ้ายขวา R05-1																																	
	3.15 บริเวณทางเข้า K.14																																	
	3.16 บริเวณ ESIE 11																																	
	3.17 บริเวณ FACTORY ESIE 14																																	
	3.18 บริเวณ FACTORY ESIE เฟส 8																																	
	3.19 สามแยก E 11																																	
	3.20 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																	



แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน กันยายน 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
3	แผนการปฏิบัติงานคัดแยกมูลฝอย																																	
	3.21 บริเวณร่องกลางทางไป H-ESIE																																	
	3.22 บริเวณฝั่งขวากำแพง PX.15																																	
	3.23 บริเวณฝั่งซ้ายข้าง L.03																																	
	3.24 ผนังแปลง Q01,002บางส่วน																																	
	3.25 บริเวณ FACTORY ESIE 15 K.13,K14																																	
	3.26 Slope ผนังแปลง R05-1,R05-2บางส่วน																																	
	3.27 ถนน P-507 ซ้ายขวา																																	
	3.28 บริเวณริมถนนทางเข้า ESIE 9 (เฟส 10)																																	

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด



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วันที่ปฏิบัติงาน
วันหยุด

[illegible]

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																	
	5.11 บริเวณทางเข้าซ้ายขวา R05-1																																	
	5.12 บริเวณทางเข้า K.14																																	
	5.13 บริเวณ ESIE 11																																	
	5.14 บริเวณ FACTORY ESIE 14																																	
	5.15 บริเวณ FACTORY ESIE เฟส 8																																	
	5.16 ตามแยก E 11																																	
	5.17 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																	
	5.18 บริเวณรอกกลางทางไป H-ESIE																																	
	5.19 บริเวณฝั่งขวากำแพง PX.15																																	
	5.20 บริเวณฝั่งซ้ายข้าง L.03																																	

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																	
	5.21 หน้าแปลง Q01,002บางตัว																																	
	5.22 บริเวณ FACTORY ESIE 15 K.13,K14																																	
	5.23 Slope หน้าแปลง R05-1,R05-2บางตัว																																	
	5.24 ถนน P-507 ซ้ายขวา																																	
	5.25 บริเวณถนน ESIE 10 (เฟส 10)																																	

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน
■ วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
6	งานดูแลทำความสะอาด																																	
	6.1 บริเวณทางเข้า ESIE 15																																	
	6.2 บริเวณ FACTORY L15																																	
	6.3 บริเวณ ESIE 11																																	
	6.4 บริเวณสายไฟแรงสูง																																	
	6.5 บริเวณทางเข้าซ้ายขวา R05-1																																	
	6.6 บริเวณทางเข้า K.14																																	
	6.7 บริเวณ ESIE 11																																	
	6.8 บริเวณ FACTORY ESIE 14																																	
	6.9 บริเวณ FACTORY ESIE เฟส 8																																	
	6.10 ตามแยก E 11																																	

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				2	3	4	5	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30						
6	งานดูแลทำความสะอาด																																	
	6.11 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																	
	6.12 บริเวณร่องกลางทางไป H-ESIE																																	
	6.13 บริเวณฝั่งขวากำแพง PX.15																																	
	6.14 บริเวณฝั่งซ้ายข้าง L.03																																	
	6.15 หนี้น้ำแปลง Q01,002บางส่วน																																	
	6.16 บริเวณ FACTORY ESIE 15 K.13,K14																																	
	6.17 Slope หนี้น้ำแปลง R05-1,R05-2บางส่วน																																	
	6.18 ถนน P-507 ซ้ายขวา																																	
	6.19 บริเวณถนน ESIE 10 (เฟส 10)																																	

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาพแวดล้อมของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

GPSS

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[illegible][illegible]



แผนการปฏิบัติงานงานดูแลหน้าวนน้อย ประจำเดือน กันยายน 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																												หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1	แผนการปฏิบัติงานใส่ปุ๋ยหน้าวนน้อย																															
	1.31 กรมศุลกากร																															
	1.32 พลาซ่า 1, 2																															
	1.33 แฟลค และสนามฟุตบอล																															
	1.34 โรงกรอง																															

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละ

ใช้ปุ๋ยสูตร 46-0-0 จำนวน 10 กระสอบ (500 ก.ก.)

ใช้ปุ๋ยสูตร 16-16-16 จำนวน 5 กระสอบ (250 ก.ก.)

ดินผสม จำนวน 50 ถุง (250 ก.ก.)

ปุ๋ยคอก จำนวน 100 ถุง (100 ก.ก.)

 วันที่ปฏิบัติงาน วันหยุด

(.....)

นายบุญญ อยู่สุข

ผู้จัดทำ

GREENPOINT SERVICE SOLUTION CO.,LTD

รายงานสรุปผลการดำเนินงาน
งานทำความสะอาดคลองลำราง

GPSS

โดย

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน กันยายน พ.ศ. 2567

เสนอ

บริษัท อีทีเอ็นซีบีอาร์ อินดัสเตรียลเอเตค (ระยอง) จำกัด

นิคมอุตสาหกรรมอีทีเอ็นซีบีอาร์ระยอง (ESIE)

แผนการปฏิบัติงาน ESIE

เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สายหลักน้ำ พลาซ่า 1			
	สายหลักน้ำ พลาซ่า 1			
	สายหลักน้ำ บ. GM			
	สายหลักน้ำ บ. GM			

แผนการปฏิบัติงาน ESIE

เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ลำรางสายหลักน้ำ บ.ฟอร์ด			
	ลำรางสายหลักน้ำ บ.ฟอร์ด			
	ลำรางสายหลักน้ำ บ.ฟอร์ด			
	ESIE 1			

แผนการปฏิบัติงาน ESIE













เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 1			
	ESIE 2			
	ESIE 2			
	ESIE 3			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3			
	ESIE 3 ทางเข้าป้อมกรมนุชกากร			
	ESIE 3 ทางเข้าป้อมกรมนุชกากร			
	ESIE 3A			










แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3A			
	ESIE 3B			
	ESIE 3B			
	P505			









แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	P505			
	ESIE 3			
	ESIE 3			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	P507			
	P507			
	ทางไปพญา-ESIE1			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดรั้ว

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 7			
	เฟส 7			
	ESIE 4			
	ESIE 4			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดรั้ว

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5			
	ESIE 5			
	ESIE 5A			
	ESIE 5A			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดรั้ว

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5B			
	ESIE 5B			
	ESIE 6			
	ESIE 6			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดรั้ว

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 6A			
	ESIE 6A			
	ESIE 6B			
	ESIE 6B			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ลำรางใหญ่ ร. 24 หน้าบ.ปาร์คเกอร์			
	หน้าบ.ปาร์คเกอร์			
	หน้าบ.ปาร์คเกอร์			
	ESIE 7			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 7			
	ESIE 8			
	ESIE 8			
	ESIE 8 หน้าบ.บักฟัส 1			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 8 หน้าบ.บักฟัส 1			
	ESIE 9			
	ESIE 9			
	ESIE 10			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 10			
	ESIE 10A			
	ESIE 10A			
	ESIE 10B			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดอู่ราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 10B			
	ESIE 11			
	ESIE 11			
	ESIE 11			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดอู่ราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 11			
	หน้าสถานี 2			
	หน้าสถานี 2			
	ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดอู่ราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 14			
	ESIE 14			
	ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดอู่ราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 16			
	ESIE 16			
	จ้าง GWM			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	จ้าง GWM			
	จ้าง ac-เทคโนโลยี			
	จ้างสระน้ำ ESIE 3B			
	จ้างสระน้ำ ESIE 3B			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	จ้าง บ.คอสต์แม็กซ์ ESIE 14			
	จ้าง บ.จันนิก ESIE 14			
	บ่อน้ำ ESIE 14			
	บ่อน้ำ ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บ่อน้ำ ESIE 14			
	จ้าง อีไฟ ESIE 11			
	จ้าง โทไฮวะ ESIE 11			
	พธิจัน โดจิคิก เฟส 7			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ภาพรวมระยะเวลาสำรวจ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พธิจัน โดจิคิก เฟส 7			
	จ้าง NRB ESIE 3			
	จ้าง NRB ESIE 3			
	พธิจัน โดจิคิก เฟส 7			










แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดด้าน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ตรงข้ามถนน ไมเคอร์ ESIE 16-14			
	ข้างไมเคอร์ ESIE 7			
	ข้างตึก 7			
	หลังโรงไฟฟ้า ESIE 8			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดด้าน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ข้างโรงไฟฟ้า ลาน 2 โซน 1 โซน 2			
	ข้าง BARBE ESIE 11			
	ข้างลานปูนที่			
	ข้างลานปูนที่			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดด้าน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY ESIE 6			
	FACTORY ESIE 6			
	FACTORY ESIE 6			
	FACTORY ESIE 14			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดด้าน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY ESIE 14			
	FACTORY ESIE 14			
	FACTORY 7 L 15			
	FACTORY 7 L 15			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	FACTORY เฟส 7 L 15			
	FACTORY เฟส 7 L 15			
	ถนนใต้เสาไฟฟ้าแรงสูง			
	บริเวณทางข้ามคลอง RD5-1			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณทางข้ามคลอง RD5-1			
	ESIE 15			
	ESIE 15			
	สามแยก ESIE 11-น.3&4			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สามแยก ESIE 11-น.3&4			
	ด้านข้างอาคาร B10 ESIE 14			
	ด้านข้างอาคาร B10 ESIE 14			
	บริเวณFACTORY เฟส 8			













แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดลำราง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณFACTORY เฟส 8			
	ด้านข้างอาคาร B04A, B04B			
	ด้านข้างอาคาร B02F-B04A, B04B			
	บริเวณPX-30 ติดกำแพงหน้าโรงงาน			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดถนน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณสี่แยกปากซอย 15			
	บริเวณสี่แยกซอย L.08 ซีก 10			
	บริเวณสี่แยกซอย L.08 ซีก 10			
	หน้าแปลง Q01-1, Q02 บางส่วน			

แผนการปฏิบัติงาน ESIE
เดือน กันยายน 2567

ทำความสะอาดถนน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	หน้าแปลง Q01-1, Q02 บางส่วน			
	ซีก 10			
	ซีก 10			

แผนการปฏิบัติงาน
งานดูแลพื้นที่ Landscape

GPSS

โดย

บริษัท กรีนพ้อยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน ตุลาคม พ.ศ. 2567

เสนอ

บริษัท อีสเทิร์นชิปบอร์ด อินดัสเตรียลเอสเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีสเทิร์นชิปบอร์ดระยอง (ESIE)

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ตุลาคม 2567

บริษัท กรีนพ้อยท์ เซอร์วิส โซลูชัน จำกัด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	งานดูแลสนามหญ้า (งานรดน้ำต้นไม้)																																		
	1.1 สนามหญ้าสาขมนขาเข้า-ออก																																		
	1.2 สนามหญ้า ESIE 1,2,4,6,6A,6B																																		
	1.3 สนามหญ้า ESIE 8,10,10B,10B/1																																		
	1.4 สนามหญ้า ESIE 5,5A,7,9																																		
	1.5 สนามหญ้า ESIE 16,14																																		
	1.6 สนามหญ้าเกาะกลาง ,S-24																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

[illegible][illegible]

[illegible]

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน

วันหยุด

[illegible]

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานตัดหญ้าขนาดเล็ก																																		
	3.11 บริเวณ FACTORY L15																																		
	3.12 บริเวณ ESIE 11																																		
	3.13 บริเวณสายไฟแรงสูง																																		
	3.14 บริเวณทางเข้าซอย R05-1																																		
	3.15 บริเวณทางเข้า K.14																																		
	3.16 บริเวณ ESIE 11																																		
	3.17 บริเวณ FACTORY ESIE 14																																		
	3.18 บริเวณ FACTORY ESIE เฟส 8																																		
	3.19 สวนแยก E 11																																		
	3.20 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		



ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานตัดหญ้าขนาดเล็ก																																		
	3.21 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	3.22 บริเวณฝั่งขวากำแพง PX.15																																		
	3.23 บริเวณฝั่งซ้ายข้าง L.03																																		
	3..24 หน้าแปลง Q01,002บางส่วน																																		
	3.25 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	3.26 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	3.27 ถนน P-507 ซ้ายขวา																																		
	3.28 บริเวณริมถนนทางเข้า ESIE 9 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

□ วันที่ปฏิบัติงาน
■ วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
4	แผนการคุ้มครองผู้บริโภค																																		
	4.1 บ่อบำบัด ESIE 8																																		
	4.2 บ่อบำบัด ESIE 14																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

 วันที่ปฏิบัติงาน
 วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																												หมายเหตุ			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		29	30	31
5	แผนการปฏิบัติงานทำความสะอาดอาคารนอน ถ้างอนน เก็บขยะ																																		
	5.1 ถนนสายหลัก ESIE 14, 16 ,เฟส 6																																		
	5.2 ESIE 3, 3A, 3A/1 เฟส 5 ส่วนขยาย, เฟส 7																																		
	5.3 ESIE 1, 2, 4, 6																																		
	5.4 FACTORY 1, 2																																		
	5.5 ESIE 5, 7, 9																																		
	5.6 ESIE 8, 10, 10A																																		
	5.7 บริเวณทางเข้า ESIE 15																																		
	5.8 บริเวณ FACTORY L15																																		
	5.9 บริเวณ ESIE 11																																		
	5.10 บริเวณสายไฟแรงสูง																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.11 บริเวณทางเข้าซอย R05-1																																		
	5.12 บริเวณทางเข้า K.14																																		
	5.13 บริเวณ ESIE 11																																		
	5.14 บริเวณ FACTORY ESIE 14																																		
	5.15 บริเวณ FACTORY ESIE เฟส 8																																		
	5.16 สวนแยก E 11																																		
	5.17 บริเวณ PX.30 คัดค้านเพ่งหน้าโรงงาน																																		
	5.18 บริเวณรอกกลางทางไป WHA-ESIE1																																		
	5.19 บริเวณฝั่งขวากันเพ่ง PX.15																																		
	5.20 บริเวณฝั่งซ้ายข้าง L.03																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.21 หน้าแปลง Q01,002บางส่วน																																		
	5.22 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	5.23 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	5.24 ถนน P-507 ซ้ำขวา																																		
	5.25 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน
■ วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลทำความสะอาด																																		
6.1	บริเวณทางเข้า ESIE 15																																		
6.2	บริเวณ FACTORY L15																																		
6.3	บริเวณ ESIE 11																																		
6.4	บริเวณสายไฟแรงสูง																																		
6.5	บริเวณทางเข้าซ้ายขวา R05-1																																		
6.6	บริเวณทางเข้า K.14																																		
6.7	บริเวณ ESIE 11																																		
6.8	บริเวณ FACTORY ESIE 14																																		
6.9	บริเวณ FACTORY ESIE เฟส 8																																		
6.10	สามแยก E 11																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลทำความสะอาด																																		
	6.11 บริเวณ PX.30 คัดค้านพวงหน้าโรงงาน																																		
	6.12 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	6.13 บริเวณฝั่งขวากำแพง PX.15																																		
	6.14 บริเวณฝั่งซ้ายข้าง L.03																																		
	6.15 หน้าแปลง Q01,002บางส่วน																																		
	6.16 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	6.17 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	6.18 ถนน P-507 ซ้ายขวา																																		
	6.19 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

[illegible][illegible]

[illegible]

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน

วันหยุด

អារម្ភកិច្ច ល្អប្រសើរ

ผู้จัดทำ

[illegible]

[illegible][illegible]



แผนการปฏิบัติงานงานดูแลฐานวนน้อย ประจำเดือน ตุลาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	แผนการปฏิบัติงานใส่ปุ๋ยหมักมูลน้อย																																		
	1.31 กรมศุลกากร																																		
	1.32 พลาซ่า 1, 2																																		
	1.33 แฟลค และสนามฟุตบอล																																		
	1.34 โรงกรอง																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละ

ไร่ปุ๋ยสูตร 46-0-0 จำนวน 10 กระสอบ (500 ก.ก.)

ไร่ปุ๋ยสูตร 16-16-16 จำนวน 5 กระสอบ (250 ก.ก.)

ดินผสม จำนวน 50 ถุง (250 ก.ก.)

ปุ๋ยคอก จำนวน 100 ถุง (100 ก.ก.)

วันที่ปฏิบัติงาน
วันหยุด

นายบุญไธย อนุรักษ์
ผู้จัดทำ

GREENPOINT SERVICE SOLUTION CO.,LTD

รายงานสรุปผลการดำเนินงาน
พลาซ่า 1-2 , ที่พักอาศัย (Residential)

GPSS

โดย
บริษัท กรีนพอยท์ เซอร์วิส โซลูชั่น จำกัด
ประจำเดือน ตุลาคม พ.ศ. 2567
เสนอ
บริษัท อีทีเอ็นซีบอร์ด อินเตอร์เนชั่นแนล (ระยอง) จำกัด
นิคมอุตสาหกรรมอีทีเอ็นซีบอร์ดระยอง (ESIE)

แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			













แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ผู้ควบคุมงาน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

งานศึกษา ส่ง ทำโถง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			













แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

งานศึกษา ส่ง ทำโถง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			













แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

งานศึกษา ส่ง ทำโถง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			










แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ทำความสะอาดอาคาร

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			













แผนการปฏิบัติงาน ESSE
เดือน ตุลาคม 2567

ท่าหลวง-วัดอีกร้าง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESSE
เดือน ตุลาคม 2567

กวาดถนน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			













แผนการปฏิบัติงาน ESSE
เดือน ตุลาคม 2567

กวาดถนน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESSE
เดือน ตุลาคม 2567

เก็บเศษกิ่งไม้ (Residues)

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	หมู่บ้านวนบ่อ			
	หมู่บ้านวนบ่อ			
	หมู่บ้านวนบ่อ			
	หมู่บ้านวนบ่อ			













แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พุ่มพรรณชาติ			
	พุ่มพรรณชาติ			
	พุ่มพรรณชาติ			










แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	กวาดถนน			
	กวาดถนน			
	กวาดถนน			
	กวาดถนน			

แผนการปฏิบัติงาน ESIE
เดือน ตุลาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ตัดหญ้า			
	ตัดหญ้า			
	ตัดหญ้า			

แผนการปฏิบัติงาน
งานดูแลพื้นที่ Landscape

GPSS

โดย

บริษัท กรีนพ้อยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน ธันวาคม พ.ศ. 2567

เสนอ

บริษัท อีสเทิร์นซีบอร์ด อินดัสเตรียลเอสเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดระยอง (ESIE)

บริษัท กรีนพ้อยท์ เซอร์วิส โซลูชัน จำกัด

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																													หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	งานดูแลสนามหญ้า (งานรดน้ำต้นไม้)																																
	1.1 สนามหญ้าสายเมนเข้า-ออก																																
	1.2 สนามหญ้า ESIE 1,2,4,6,6A,6B																																
	1.3 สนามหญ้า ESIE 8,10,10B,10B/1																																
	1.4 สนามหญ้า ESIE 5,5A,7,9																																
	1.5 สนามหญ้า ESIE 16,14																																
	1.6 สนามหญ้าเกาะกลาง ,S-24																																

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

□ วันที่ปฏิบัติงาน
■ วันหยุด

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[illegible]

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3	แผนการปฏิบัติงานตัดหญ้าขนาดเล็ก																																		
	3.11 บริเวณ FACTORY L15																																		
	3.12 บริเวณ ESIE 11																																		
	3.13 บริเวณสายไฟแรงสูง																																		
	3.14 บริเวณทางเข้าซอยขา R05-1																																		
	3.15 บริเวณทางเข้า K.14																																		
	3.16 บริเวณ ESIE 11																																		
	3.17 บริเวณ FACTORY ESIE 14																																		
	3.18 บริเวณ FACTORY ESIE เฟส 8																																		
	3.19 สามแยก E 11																																		
	3.20 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
3	แผนการปฏิบัติงานตัดหญ้าขนาดเล็ก																																		
	3.21 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	3.22 บริเวณคังขวากกำแพง PX.15																																		
	3.23 บริเวณคังซ้ายข้าง L.03																																		
	3..24 หน้าแปลง Q01,002บางส่วน																																		
	3.25 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	3.26 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	3.27 ถนน P-507 ซ้ายขวา																																		
	3.28 บริเวณริมถนนทางเข้า ESIE 9 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสถานะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน
■ วันหยุด

วันที่ปฏิบัติงาน
วันพุธ

[illegible]

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.11 บริเวณทางเข้าซ้ายขวา R05-1																																		
	5.12 บริเวณทางเข้า K.14																																		
	5.13 บริเวณ ESIE 11																																		
	5.14 บริเวณ FACTORY ESIE 14																																		
	5.15 บริเวณ FACTORY ESIE เฟส 8																																		
	5.16 สามแยก E 11																																		
	5.17 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		
	5.18 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	5.19 บริเวณฝั่งขวากำแพง PX.15																																		
	5.20 บริเวณฝั่งซ้ายข้าง L.03																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.21 หน้าแปลง Q01,002บางส่วน																																		
	5.22 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	5.23 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	5.24 ถนน P-507 ซ้ายขวา																																		
	5.25 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลรักษาความสะอาดทุกประเภท																																		
	6.1 บริเวณทางเข้า ESIE 15																																		
	6.2 บริเวณ FACTORY L15																																		
	6.3 บริเวณ ESIE 11																																		
	6.4 บริเวณเสาไฟฟ้าแรงสูง																																		
	6.5 บริเวณทางเข้าซ้ายขวา R05-1																																		
	6.6 บริเวณทางเข้า K.14																																		
	6.7 บริเวณ ESIE 11																																		
	6.8 บริเวณ FACTORY ESIE 14																																		
	6.9 บริเวณ FACTORY ESIE เฟส 8																																		
	6.10 สามแยก E 11																																		

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
6	งานดูแลรักษาความสะอาดทุ่ตบาท																																		
	6.11 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		
	6.12 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	6.13 บริเวณฝั่งขวากำแพง PX.15																																		
	6.14 บริเวณฝั่งซ้ายข้าง L.03																																		
	6.15 หน้าแปลง Q01,002บางส่วน																																		
	6.16 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	6.17 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	6.18 ถนน P-507 ซ้ายขวา																																		
	6.19 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน

■ วันหยุด

[illegible][illegible]

[illegible]

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันพุธ

[illegible]

นายภิญโญ อยู่สุข

ผู้จัดทำ

[illegible]

[illegible][illegible]

แผนการปฏิบัติงานงานดูแลย่านนวน้อย ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
1	แผนการปฏิบัติงานใส่ปุ๋ยย่านนวน้อย																																		
	1.31 กรมชลการ																																		
	1.32 พลาซ่า 1, 2																																		
	1.33 แฟลต และสนามฟุตบอล																																		
	1.34 โรงกรอง																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละ

ใช้ปุ๋ยสูตร 46-0-0 จำนวน 10 กระสอบ (500 ก.ก.)

ใช้ปุ๋ยสูตร 16-16-16 จำนวน 5 กระสอบ (250 ก.ก.)

ดินผสม จำนวน 50 ถุง (250 ก.ก.)

ปุ๋ยคอก จำนวน 100 ถุง (100 ก.ก.)



วันที่ปฏิบัติงาน

วันหยุด

(.....)

นายบุญไธย อยู่สุข

ผู้จัดทำ

GREENPOINT SERVICE SOLUTION CO.,LTD

รายงานสรุปผลการดำเนินงาน
พลาซ่า 1-2 , ที่พักอาศัย (Residential)

GPSS

โดย

บริษัท กรีนพอยท์ เซอร์วิส โซลูชั่น จำกัด

ประจำเดือน พฤศจิกายน พ.ศ. 2567

เสนอ

บริษัท อีแอมทีเอ็นซีบีอาร์ อินดัสเตรียลเอชเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีแอมทีเอ็นซีบีอาร์ระยอง (ESIE)

แผนการปฏิบัติงาน ESIE

เดือน พฤศจิกายน 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			

แผนการปฏิบัติงาน ESIE

เดือน พฤศจิกายน 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESIE

เดือน พฤศจิกายน 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 2			
	พลาซ่า 2			




แผนการปฏิบัติงาน ESIE
เดือน พฤศจิกายน 2567

งานศึกษา ชำนาญ

ลำดับ	จุดปฏิบัติงาน	ภาพทำ	ขณะปฏิบัติงาน	หลังทำ
	พธำ 1			
	พธำ 1			
	พธำ 1			
	พธำ 1			













แผนการปฏิบัติงาน ESIE
เดือน พฤศจิกายน 2567

งานศึกษา ชำนาญ

ลำดับ	จุดปฏิบัติงาน	ภาพทำ	ขณะปฏิบัติงาน	หลังทำ
	พธำ 1			
	พธำ 1			

แผนการปฏิบัติงาน ESIE
เดือน พฤศจิกายน 2567

งานศึกษา ชำนาญ

ลำดับ	จุดปฏิบัติงาน	ภาพทำ	ขณะปฏิบัติงาน	หลังทำ
	พธำ 2			
	พธำ 2			
	พธำ 2			
	พธำ 2			

แผนการปฏิบัติงาน ESIE
เดือน พฤศจิกายน 2567

งานควบคุมอาคาร

ลำดับ	จุดปฏิบัติงาน	ภาพทำ	ขณะปฏิบัติงาน	หลังทำ
	พธำ 1			
	พธำ 1			
	พธำ 1			

แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

จำนวนชั่วโมงสอน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

กวาดถนน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			
	พลาซ่า 1			













แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

กวาดถนน

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			
	พลาซ่า 2			

แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	หมู่บ้านฉะบอง			
	หมู่บ้านฉะบอง			
	หมู่บ้านฉะบอง			
	หมู่บ้านฉะบอง			

แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	สถานที่	จะปฏิบัติงาน	วันที่
	พุ่มไม้ริมทาง			
	พุ่มไม้ริมทาง			
	พุ่มไม้ริมทาง			










แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	สถานที่	จะปฏิบัติงาน	วันที่
	กวาดถนน			
	กวาดถนน			
	กวาดถนน			
	กวาดถนน			

แผนการปฏิบัติงาน ESIE
เดือน พฤษภาคม 2567

ที่พักอาศัย (Residential)

ลำดับ	จุดปฏิบัติงาน	สถานที่	จะปฏิบัติงาน	วันที่
	ถังน้ำ			
	ถังน้ำ			
	ถังน้ำ			

แผนการปฏิบัติงาน
งานดูแลพื้นที่ Landscape

GPSS

โดย

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

ประจำเดือน ธันวาคม พ.ศ. 2567

เสนอ

บริษัท อีสเทิร์นชิบอร์ด อินดัสเตรียลเอสเตท (ระยอง) จำกัด

นิคมอุตสาหกรรมอีสเทิร์นชิบอร์ดระยอง (ESIE)

GPSS

แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ธันวาคม 2567

บริษัท กรีนพอยท์ เซอร์วิส โซลูชัน จำกัด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	งานดูแลสวนหญ้า (งานรดน้ำต้นไม้)																																		
	1.1 สนามหญ้าสาขามนชาเข้า-ออก																																		
	1.2 สนามหญ้า ESIE 1,2,4,6,6A,6B																																		
	1.3 สนามหญ้า ESIE 8,10,10B,10B/1																																		
	1.4 สนามหญ้า ESIE 5,5A,7,9																																		
	1.5 สนามหญ้า ESIE 16,14																																		
	1.6 สนามหญ้านเกาะกลาง ,S-24																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																												หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31				
2	แผนการปฏิบัติงานกักตัวชีพ																															
	2.1 สายเมน พลาซ่า 1-พลาซ่า 2																															
	2.2 ESIE 3, 3A, 3A/1																															
	2.3 ESIE 3A, P-503, P-506 และเฟส 7																															
	2.4 ESIE 5,5A, 7 และ 9																															
	2.5 ESIE 6,6A และ 6B																															
	2.6 ESIE 1, 2, 4 และ S-24																															
	2.7 ESIE 8, 8A, 10 และ 10B																															
	2.8 ESIE 14 และ 16																															
	2.9 หน้ากรรณสุตถากร																															
	2.10 บริเวณทางเข้า ESIE 15																															

[illegible]

[illegible]

วันที่ปฏิบัติงาน
วันหยุด

[illegible]



แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
3	แผนการปฏิบัติงานตัดหญ้าขนาดเล็ก																																		
	3.11 บริเวณ FACTORY L15																																		
	3.12 บริเวณ ESIE 11																																		
	3.13 บริเวณสายไฟแรงสูง																																		
	3.14 บริเวณทางเข้าซ้ายขวา R05-1																																		
	3.15 บริเวณทางเข้า K.14																																		
	3.16 บริเวณ ESIE 11																																		
	3.17 บริเวณ FACTORY ESIE 14																																		
	3.18 บริเวณ FACTORY ESIE เฟส 8																																		
	3.19 ตามแยก E 11																																		
	3.20 บริเวณ PX.30 ติดกำแพงหน้าโรงงาน																																		



แผนการปฏิบัติงานงานดูแล Landscape ESIE ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
3	แผนการปฏิบัติงานตัดหญ้าขนาดเล็ก																																		
	3.21 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	3.22 บริเวณฝั่งขวากำแพง PX.15																																		
	3.23 บริเวณฝั่งซ้ายข้าง L.03																																		
	3..24 หน้าแปลง Q01,002บางส่วน																																		
	3.25 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	3.26 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	3.27 ถนน P-507 ซ้ายขวา																																		
	3.28 บริเวณริมถนนทางเข้า ESIE 9 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน
■ วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.11 บริเวณทางเข้าซอย R05-1																																		
	5.12 บริเวณทางเข้า K.14																																		
	5.13 บริเวณ ESIE 11																																		
	5.14 บริเวณ FACTORY ESIE 14																																		
	5.15 บริเวณ FACTORY ESIE เฟส 8																																		
	5.16 สามแยก E 11																																		
	5.17 บริเวณ PX.30 คัดค้าน้ำโรงงาน																																		
	5.18 บริเวณร่องกลางทางไป WHA-ESIE1																																		
	5.19 บริเวณฝั่งขวากำแพง PX.15																																		
	5.20 บริเวณฝั่งซ้ายข้าง L.03																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
5	แผนการปฏิบัติงานทำความสะอาดถนน ด้านถนน เก็บขยะ																																		
	5.21 หน้าแปลง Q01,002บางส่วน																																		
	5.22 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	5.23 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	5.24 ถนน P-507 ซ้ายขวา																																		
	5.25 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

วันที่ปฏิบัติงาน
วันหยุด

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
6	งานดูแลทำความสะอาด																																		
	6.1 บริเวณทางเข้า ESIE 15																																		
	6.2 บริเวณ FACTORY L15																																		
	6.3 บริเวณ ESIE 11																																		
	6.4 บริเวณสายไฟแรงสูง																																		
	6.5 บริเวณทางเข้าซ้ายขวา R05-1																																		
	6.6 บริเวณทางเข้า K.14																																		
	6.7 บริเวณ ESIE 11																																		
	6.8 บริเวณ FACTORY ESIE 14																																		
	6.9 บริเวณ FACTORY ESIE เฟส 8																																		
	6.10 สามแยก E 11																																		

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																															หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30	31							
6	งานดูแลทำความสะอาด																																		
	6.11 บริเวณ PX.30 คัดท่าแห่งหน้าโรงงาน																																		
	6.12 บริเวณร่องกลางทางไป WHA-ESIE I																																		
	6.13 บริเวณคั้งขวาก้าแห่ง PX.15																																		
	6.14 บริเวณคั้งซ้ายข้าง L.03																																		
	6.15 หน้าแปลง Q01,002บางส่วน																																		
	6.16 บริเวณ FACTORY ESIE 15 K.13,K14																																		
	6.17 Slope หน้าแปลง R05-1,R05-2บางส่วน																																		
	6.18 ถนน P-507 ซ้ายขวา																																		
	6.19 บริเวณถนน ESIE 10 (เฟส 10)																																		

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละจุด

■ วันที่ปฏิบัติงาน
■ วันหยุด

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[illegible]

[illegible][illegible]



แผนการปฏิบัติงานงานดูแลฐานวนน้อย ประจำเดือน ธันวาคม 2567

ลำดับ	รายละเอียด	ความถี่	พื้นที่	วันที่																														หมายเหตุ
				2	3	4	6	7	9	10	11	12	13	14	16	17	18	19	20	21	23	24	25	26	27	28	30							
1	แผนการปฏิบัติงานใส่ปุ๋ยพุ่มขนาดเล็ก																																	
	1.31 กรมชลประทาน																																	
	1.32 พลาซ่า 1, 2																																	
	1.33 แฟลค และสนามฟุตบอล																																	
	1.34 โรงกรอง																																	

หมายเหตุ : แผนการปฏิบัติงานอาจมีการเปลี่ยนแปลงได้ตามความเหมาะสมตามสภาวะเร่งด่วนของแต่ละพื้นที่และแต่ละ

ไร่ปุ๋ยสูตร 46-0-0 จำนวน 10 กระสอบ (500 ก.ก.)

ไร่ปุ๋ยสูตร 16-16-16 จำนวน 5 กระสอบ (250 ก.ก.)

ดินผสม จำนวน 50 ถุง (250 ก.ก.)

ปุ๋ยคอก จำนวน 100 ถุง (100 ก.ก.)

วันที่ปฏิบัติงาน
วันหยุด

(.....)

นายบุญไทย อยู่สุข

ผู้จัดทำ

GREENPOINT SERVICE SOLUTION CO.,LTD

รายงานสรุปผลการดำเนินงาน
งานตัดหญ้าสนามน้อย

GPSS

โดย

บริษัท กรีนพอยท์ เซอร์วิส โซลูชั่น จำกัด

ประจำเดือน ธันวาคม พ.ศ. 2567

เสนอ












บริษัท อีทีเอ็นซีบีอาร์ อินดัสเตรียลเอชเค (ระยอง) จำกัด

นิคมอุตสาหกรรมอีทีเอ็นซีบีอาร์ระยอง (ESIE)

แผนการปฏิบัติงาน ESIE

เดือน ธันวาคม 2567













หน่วยงานก่อสร้าง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ริมสาขหลักหน้าอาคาร 1			
	ริมสาขหลักหน้าอาคาร 1			
	เกาะกลางสาขหลัก			
	สวนหลักหน้า ฟอร์ด			

แผนการปฏิบัติงาน ESIE

เดือน ธันวาคม 2567













หน่วยงานก่อสร้าง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	สาขหลักวงเวียนหน้า ฟอร์ด			
	เกาะกลางหน้า ฟอร์ด			
	ริมสาขหลักหน้า 5-10			
	ริมสาขหลักหน้า 5-10			

แผนการปฏิบัติงาน ESIE













เดือน ธันวาคม 2567

หน่วยงานก่อสร้าง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เกาะกลางสาขหลัก 5-10			
	ESIE 1			
	ESIE 1			
	ESIE 2			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/กอง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 2			
	ESIE 3			
	ESIE 3			
	ESIE 3			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/กอง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3			
	ทางเข้าอันตรกมศุลกากร ESIE 3			
	ทางเข้าอันตรกมศุลกากร ESIE 3			
	ESIE 3A			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/กอง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 3A			
	ESIE 3B			
	ESIE 3B			
	P505			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/กอง

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	P505			
	ริมP506			
	ริมP506			
	เกาะกลางริมP506			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ขอ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ทางไปพชช-ESIE1			
	ทางไปพชช-ESIE1			
	เกาะกลางทางไปพชช-ESIE1			
	เฟส 7			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ขอ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 7			
	เกาะกลางเฟส 7			
	ESIE 4			
	ESIE 4			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ขอ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5			
	ESIE 5			
	ESIE 5A			
	ESIE 5A			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ขอ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 5B			
	ESIE 5B			
	ESIE 6B			
	ESIE 6B			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	หน้า ปาร์กเกอร์			
	หน้า ปาร์กเกอร์			
	ESIE 7			
	ESIE 7			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 8			
	ESIE 8			
	ESIE 8 หน้าห้องบันทึกผล 1			
	ESIE 8 หน้าห้องบันทึกผล 1			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 9			
	ESIE 9			
	ESIE 10			
	ESIE 10			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 10A			
	ESIE 10A			
	ESIE 10B			
	ESIE 10B			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 11			
	ESIE 11			
	ESIE 11			
	ESIE 11			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 14			
	ESIE 14			
	ESIE 14			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ESIE 14			
	ESIE 14			
	หน้าหอเช่า 2			
	หน้าหอเช่า 2			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงาน/ชื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เกาะกลางหน้าหอเช่า 2			
	FACTORY 2 ESIE 14			
	FACTORY 2 ESIE 14			
	โถง ESIE 1			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้าวงล้อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 1			
	โพธิ์ทาง ESIE 2			
	โพธิ์ทาง ESIE 2			
	โพธิ์ทาง ESIE 3			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้าวงล้อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 3			
	โพธิ์ทาง ESIE 3A			
	โพธิ์ทาง ESIE 3A			
	โพธิ์ทาง ESIE 4			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้าวงล้อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 4			
	โพธิ์ทาง ESIE 5			
	โพธิ์ทาง ESIE 5			
	โพธิ์ทาง ESIE 7			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้าวงล้อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โพธิ์ทาง ESIE 7			
	โพธิ์ทาง ESIE 8			
	โพธิ์ทาง ESIE 8			
	โพธิ์ทาง ESIE 10			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	โหลทาง ESIE 10			
	บริเวณ FACTORY เฟส 7 (L15)			
	บริเวณ FACTORY เฟส 7 (L15)			
	บริเวณ FACTORY เฟส 7 (L15)			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ถนนแยก ESIE เฟส 7			
	ถนนแยก ESIE เฟส 7			
	เฟส 8			
	เฟส 8			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 8			
	เฟส 8			
	ทางเข้า ESIE 15 (บ่อจล 14)			
	ทางเข้า ESIE 15 (บ่อจล 14)			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ถนนแยก ESIE 11-11.M&T			
	ถนนแยก ESIE 11-11.M&T			
	พื้นที่ว่างอาคาร 10			
	บริเวณ FACTORY เฟส 8			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณFACTORY ๓๕ 8			
	ด้านขวา R02F-R04A,R04B			
	ด้านซ้าย R02F-R04A,R04B			
	บริเวณPX30 ติดกำแพงหน้าโรงงาน			










แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณPX30 ติดกำแพงหน้าโรงงาน			
	บริเวณPX30 ติดกำแพงหน้าโรงงาน			
	บริเวณฝั่งซ้ายถนนPX15			
	บริเวณฝั่งซ้ายถนนPX15			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	บริเวณค้ขวข้าง L08			
	บริเวณค้ขวข้าง L08			
	บริเวณFACTORY ESTE15 (K13,K14)			
	บริเวณFACTORY ESTE15 (K13,K14)			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน่วยงานที่ดูแล

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	Stopหน้าบ่อดำ R05-1,R05-2บางส่วน			
	Stopหน้าบ่อดำ R05-1,R05-2บางส่วน			
	ถนนP507			
	ถนนP507			













แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เสาไฟฟ้าแรงสูง			
	เฟส 10			
	เฟส 10			
	เฟส 10			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	เฟส 10			
	ส่วนขยายเฟส 9			
	ส่วนขยายเฟส 9			
	ส่วนขยายเฟส 7			

แผนการปฏิบัติงาน ESIE
เดือน ธันวาคม 2567

หน้ารวมสื่อ

ลำดับ	จุดปฏิบัติงาน	ก่อนทำ	ขณะปฏิบัติงาน	หลังทำ
	ส่วนขยายเฟส 7			
	ส่วนขยายเฟส 8			
	ส่วนขยายเฟส 8			

ภาคผนวก ก-16

ข้อมูลปริมาณขยะ ปี 2567

ปริมาณขยะของโครงการ

ปริมาณขยะมูลฝอยและกากของเสียที่เกิดขึ้นในพื้นที่นิคมฯ ESIE ปี 2024 (โครงการฯ)

เดือน	ปริมาณขยะประเภทต่างๆ (kg)				หมายเหตุ
	ขยะรีไซเคิล	กากของเสียอันตราย	ขยะทั่วไป		
			(พื้นที่พาณิชย์กรรม + พื้นที่ที่พักอาศัย)	กากตะกอนน้ำประปา	
Jan	0.00	0.00	12,870.00	60,790.00	
Feb	0.00	0.00	11,880.00	70,820.00	
Mar	0.00	0.00	12,870.00	66,970.00	
Apr	0.00	0.00	12,210.00	48,520.00	
May	0.00	0.00	13,860.00	54,560.00	
Jun	0.00	0.00	11,880.00	78,310.00	
Jul	0.00	0.00	12,870.00	56,330.00	
Aug	0.00	0.00	12,870.00	47,520.00	
Sep	0.00	0.00	12,870.00	73,390.00	
Oct	0.00	0.00	12,870.00	65,110.00	
Nov	0.00	0.00	12,870.00	75,470.00	
Dec	0.00	0.00	11,880.00	61,580.00	
รวม	0.00	0.00	151,800.00	879,370.00	
เฉลี่ยต่อเดือน kg	0.00	0.00	12,650.00	48,853.89	
เฉลี่ยต่อวัน kg	0.00	0.00	421.67	1,628.46	

ปริมาณขยะของโรงงาน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) พ.ศ. 2567

ชื่อ บริษัท นิธิโนบะ สมบูรณ์ ออโตโมทีฟ จำกัด, แปลงที่ S-42, เบอร์โทรศัพท์ 038-954448-51

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		(Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.94	0.00	24.30	6.00
กุมภาพันธ์	2.80	0.00	43.35	7.27
มีนาคม	2.94	0.00	11.39	2.73
เมษายน	2.38	0.00	27.93	3.66
พฤษภาคม	3.08	0.00	27.93	3.55
มิถุนายน	2.66	0.00	45.80	4.35
กรกฎาคม	2.80	0.00	20.10	6.92
สิงหาคม	3.08	0.00	0.00	0.00
กันยายน	2.94	0.00	51.34	0.00
ตุลาคม	2.94	0.00	48.56	4.30
พฤศจิกายน	2.80	0.00	33.46	2.18
ธันวาคม	2.80	0.00	17.68	5.67
รวม (ตัน)	34.16	0.00	351.84	46.63

ลงชื่อ _____ มีข้อมูล
ตำแหน่ง _____ co.th
วัน-เดือน-ปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ
ระหว่างเดือนกรกฎาคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โยโรซี (ไทยแลนด์) จำกัด, เบอร์โทรศัพท์ 038-954040
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง), แปลงที่ E-10

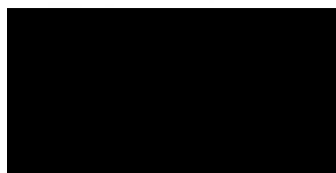
เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	3.58	8.34	29.72	5.25
กุมภาพันธ์	1.73	4.05	9.91	16.03
มีนาคม	1.05	2.46	10.12	8.83
เมษายน	1.69	3.92	25.07	3.27
พฤษภาคม	2.79	6.52	40.16	3.60
มิถุนายน	1.45	4.85	5.68	6.86
กรกฎาคม	3.16	7.36	0.967	2.52
สิงหาคม	2.68	6.26	40.233	11.56
กันยายน	2.66	6.22	5.638	3.98
ตุลาคม	4.66	10.88	6.958	12.795
พฤศจิกายน	4.15	9.67	41.180	27.08
ธันวาคม	1.80	4.175	0.625	3.15
รวม (ตัน)	31.40	74.71	216.26	104.93

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงาน ผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ.2567

ชื่อโรงงาน บริษัท แกรนด์เทค พรีซิชั่น แมนูแฟคเจอริ่ง ไทยแลนด์ จำกัด เบอร์โทรศัพท์ 038-955633

เดือน	ขยะมูลฝอย (กิโลกรัม)	Non - Hazardous waste กากของเสียอุตสาหกรรม ทั่วไป(ตัน)	Hazardous waste กากของเสียอุตสาหกรรม อันตราย(ตัน)	Reuse / Recycle กากของเสียอุตสาหกรรม ที่ส่งกำจัดด้วยวิธีการใช้ซ้ำ นำกลับมาใช้ใหม่ (ตัน)
มกราคม	3,360		10.590	
กุมภาพันธ์	3,640			
มีนาคม	3,640			
เมษายน	3,360		10.980	
พฤษภาคม	3,640			
มิถุนายน	3,640		10.99	
กรกฎาคม	3,640			
สิงหาคม	3,920			
กันยายน	3,360		10.930	
ตุลาคม	3,920		1.84	
พฤศจิกายน	3,640			
ธันวาคม	3,920		10.77	
รวม ()	43,680.000	0	56.10	0



เอกสารแนบ 1.8

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน เพื่อใช้ประกอบการจัดทำ
รายงานผลการปฏิบัติตามมาตรการฯ โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)

ระยะดำเนินการ ระหว่างเดือน กรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อบริษัท เซกิซุย เอส-ล็ค (ประเทศไทย) จำกัด

แปลงที่ I-49

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

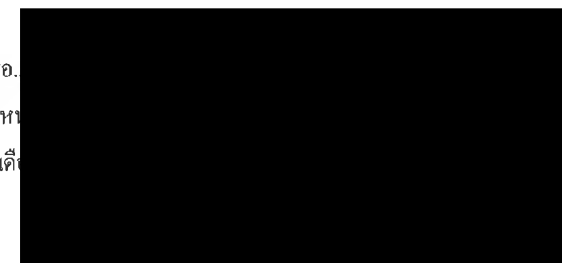
เบอร์ติดต่อ 038-955430-6

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.260	6.395	7.848	-
สิงหาคม	1.260	40.549	0	-
กันยายน	1.120	28.9	1.6	-
ตุลาคม	1.260	31.168	0.35	-
พฤศจิกายน	1.260	115.282	42.822	-
ธันวาคม	1.120	34.755	5.4	-
รวม (ตัน)	7.280	257.049	58.02	-

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ โรงงาน
นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)
ระยะดำเนินการระหว่างเดือน มกราคม-ธันวาคม 2567

บริษัท ทีโวลิต ไทย ไดมอนด์ จำกัด แปลงที่ I-42A
นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) เบอร์โทรศัพท์ 033-683-407 หรือ 089-936-3825

เดือน	ขยะมูลฝอย (ตัน)	การของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	ของเสียที่นำกลับมา ใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.64	2.04	8.58	-
กุมภาพันธ์	2.97	1.76	16.02	-
มีนาคม	2.64	1.24	26.68	-
เมษายน	2.64	1.06	13.61	-
พฤษภาคม	2.97	1.21	20.46	-
มิถุนายน	2.64	1.34	13.79	-
กรกฎาคม	2.97	2.99	24.93	-
สิงหาคม	2.97	2.21	30.49	-
กันยายน	2.97	3.17	20.89	-
ตุลาคม	2.97	1.64	15.54	-
พฤศจิกายน	2.64	2.70	15.42	-
ธันวาคม	2.64	1.78	2.69	-
รวม (ตัน)	16.5	8.64	99.13	0

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ มกราคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท คาเมกซี พูลเลย์ จำกัด เบอร์โทรศัพท์ 038-955320
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ S-35

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.80	50.00	0.81	0.20
กุมภาพันธ์	2.80	62.28	3.68	0.00
มีนาคม	2.94	55.34	1.01	0.38
เมษายน	2.66	79.25	5.94	0.14
พฤษภาคม	3.08	90.01	0.86	0.12
มิถุนายน	2.66	88.38	0.87	0.15
กรกฎาคม	3.22	82.55	1.74	0.30
สิงหาคม	3.08	91.93	6.18	0.06
กันยายน	2.94	85.41	1.33	0.18
ตุลาคม	3.22	95.25	0.79	0.11
พฤศจิกายน	2.94	88.15	0.81	0.20
ธันวาคม	2.80	98.17	8.21	0.33
รวม (ตัน)	35.14	956.72	32.23	2.17

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง
วัน-เดือน-ปี ที่รายงาน

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง
วัน-เดือน-ปี ที่รายงาน
ตำแหน่ง ผู้จัดการฝ่ายคุณภาพ/หัวหน้าหน่วยงานความปลอดภัย
15 มกราคม 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปในโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม - มิถุนายน พ.ศ. 2567

ชื่อบริษัท..... ทีอีซี แมนูแฟกเจอร์ (ไทยแลนด์) จำกัด..... เบอร์ติดต่อ..... 033-016-789

นิคมอุตสาหกรรม.....อีสเทิร์นซีบอร์ด (ระยอง)..... แปลงที่..... S-32A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	15.250	52.983	1.750	105.913
กุมภาพันธ์	15.250	56.045	-	113.679
มีนาคม	15.860	49.348	3.800	134.470
เมษายน	14.030	42.404	-	94.890
พฤษภาคม	16.470	56.110	2.800	116.410
มิถุนายน	15.250	52.753	-	109.720
กรกฎาคม	16.470	83.134	4.230	116.728
สิงหาคม	13.670	51.789	-	119.884
กันยายน	15.250	46.977	3.750	114.945
ตุลาคม	16.470	59.731	-	111.635
พฤศจิกายน	15.860	50.970	2.733	116.420
ธันวาคม	14.640	39.735	2.807	85.929
รวม (ตัน)	184.470	641.977	21.870	1,340.623

ขอแสดงความนับถือ

ลงชื่อ.....
ตำแหน่ง.....
วัน-เดือน.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

มกราคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท พาสติก ออสมเอน โอโอไอ อินทรีย์ (ประเทศไทย) จำกัด

เบอร์โทรศัพท์ 038-863992 ต่อ 1207

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

แปลงที่... I-01....

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	6.93	25.04	0.27	
กุมภาพันธ์	6.93	34.00	0.76	
มีนาคม	6.93	25.54	0.66	
เมษายน	6.93	27.44	0.41	
พฤษภาคม	7.59	27.67		
มิถุนายน	6.6	26.02	0.03	
กรกฎาคม	7.59	21.13	0.51	
สิงหาคม	7.26	26.59	0.94	
กันยายน	6.93	35.51		
ตุลาคม	7.59	24.55	0.64	
พฤศจิกายน	6.93	34.73	0.81	
ธันวาคม	6.6	31.97	0.10	
รวม (ตัน)	77.88	242.43	6.78	0

วัน-เดือน-ปี พ.ศ.

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของบริษัทฯ
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามความภาคการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อบริษัทฯ อะแมซอน ดาต้า เซอร์วิส เซล (ประเทศไทย) จำกัด เบอร์โทรศัพท์ 05-1270-2126
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ดินเลขที่ 017

เดือน	ของเสียรวม (ตัน)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste) (ตัน)	ของเสียอันตราย (Hazardous waste) (ตัน)	น้ำเสียนำมาใช้ใหม่/รีไซเคิล (Reuse/Recycle) (ตัน)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	1.26	0	0	0
สิงหาคม	1.26	0	0	0
กันยายน	1.12	0	0	0
ตุลาคม	1.26	0	0	0
พฤศจิกายน	1.26	0.12	0.004	0
ธันวาคม	1.12	0	0	0
รวมทั้งสิ้น (ตัน)	7.28	0.12	0.004	0

ลงชื่อผู้ให้ข้อมูล



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของบริษัทฯ
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามความภาคการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระยะเวลาดำเนินการตั้งแต่ พ.ศ. 2567

จังหวัด: 91 13-100000 00000 00000
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)
เลขที่โทรศัพท์: 05-1270-2126
แปลงที่ดิน: 017

เดือน	ของเสียรวม (ตัน)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non Hazardous waste)	ของเสียอันตราย (Hazardous waste)	น้ำเสียนำมาใช้ใหม่/รีไซเคิล (Reuse/Recycle)
มกราคม	0.56	22.36	1.34	4.52
กุมภาพันธ์	0.56	46.51	1.51	8.3
มีนาคม	0.7	46.8	5.02	1.4
เมษายน	0.56	46.45	3.52	0
พฤษภาคม	0.56	52.03	1.61	1.2
มิถุนายน	0.7	26.60	1.44	0
กรกฎาคม	0.56	62.76	2.18	3.63
สิงหาคม	0.7	40.09	2.84	4.09
กันยายน	0.56	51.68	0	4.65
ตุลาคม	0.56	24.24	8.53	8.96
พฤศจิกายน	0.7	50.01	4.91	9.89
ธันวาคม	0.56	33.53	1.02	0
รวม (ตัน)	7.28	547.26	29.03	51.77



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมเหมราชอีสเทิร์นซีบอร์ด ระยอง พ.ศ. 2567

ชื่อ Y M (THALLAND) CO.,LTD แปลงที่ Q05,Q06 เบอร์โทรศัพท์ 033-684-082

เดือน (Month)	ขยะมูลฝอย (ตัน) (Garbage)(Ton)	กากของเสียอุตสาหกรรม (ตัน) (Industrial waste) (ton)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
January	1.32	19.74	13.33	-
February	1.32	24.61	14.48	-
March	1.32	24.82	12.55	-
April	1.32	24.21	11.10	-
May	1.32	22.72	10.58	-
June	1.32	21.33	9.27	-
July	1.32	25.92	10.65	-
August	1.32	24.84	13.54	-
September	1.32	21.53	14.75	-
October	1.32	25.12	12.69	-
November	1.32	23.01	13.14	-
December	1.32	21.14	11.47	-
รวม/ Total (Ton)	15.84	278.97	147.55	-

Reported
Position...
Report da

ปริมาณขยะมูลฝอยที่สามารถนำกลับมาใช้ใหม่ได้

ชนิด	ปริมาณ (ตัน)					รวม
	กรกฎาคม	สิงหาคม	กันยายน	ตุลาคม	พฤศจิกายน	
1. เศษไม้พาลท	2.75	-	-	2.25	-	2.00
2. เศษสแตนเลส	-	-	-	-	-	-
3. เศษกระดาษลัง	0.15	0.21	0.18	0.13	0.20	0.17
4. พลาสติก,สายรัดพลาสติก, พาเลทพลาสติก,บรรจุภัณฑ์พลาสติก	0.48	1.14	0.85	0.50	1.11	0.55
5. เศษเหล็ก	-	3.50	-	5.75	4.55	0.23
6. ถังเหล็ก	-	-	3.83	-	3.38	3.15
7. เศษยางคืบ	25.28	13.22	11.10	8.97	17.74	7.76

ปริมาณขยะอันตราย

ชนิด	ปริมาณ (ตัน)					รวม
	กรกฎาคม	สิงหาคม	กันยายน	ตุลาคม	พฤศจิกายน	
1. ภาชนะบรรจุปนเปื้อน	3.90	2.24	2.92	2.88	3.15	3.41
2. น้ำมันหล่อลื่นใช้แล้ว	-	-	4.20	-	-	-
3. Contaminate Package	1.55	2.13	0.83	-	-	-
4. Contaminate Fabric	0.60	0.60	0.35	-	-	-
5. วัสดุปนเปื้อน	-	-	1.04	1.95	1.75	3.65
6. น้ำแข็งปนเปื้อน	-	-	-	5.70	-	-
7. Out off spec chemical	-	-	0.83	2.00	1.45	3.10
8. ฝุ่นจาก Dust Collector	1.35	2.22	1.35	-	-	-
9. หลอดไฟ	-	-	-	-	-	-

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม - ธันวาคม 2567

ชื่อโรงงาน บริษัท ออโต้ อินทีเรีย โปรดักส์ จำกัด

แปลงที่ LQ3,LQ4

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ 038-950150

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป	ของเสียอันตราย	นำกลับมาใช้ซ้ำ/ ใช้ใหม่
		(Non-Hazardous waste)	(Hazardous waste)	(Reuse/Recycle)
กรกฎาคม	2.37	15.46	0.00	0.00
สิงหาคม	7.22	16.98	0.00	14.18
กันยายน	5.65	19.11	4.49	12.22
ตุลาคม	10.59	22.63	4.52	6.64
พฤศจิกายน	13.44	20.76	6.38	17.92
ธันวาคม	3.96	16.15	0.00	4.71
รวม (ตัน)	43.21	111.08	15.38	56.65

ลงชื่อ.....

(.....)

วัน/เดือน/ปี

NISSEI

NISSEI PLASTIC MACHINERY (THAILAND) CO., LTD.
300/70 Moo 1 Tasit, Pluakdaeng, Rayong 21140 Tel. 038-950562-4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน เพื่อใช้ประกอบการจัดทำ
รายงานผลการปฏิบัติตามมาตรการฯ โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)
ระยะดำเนินการ ระหว่างเดือน กรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อ บริษัท นิสเซี พลาสติก แมชชีนเนอรี (ไทยแลนด์) จำกัด

แปลงที่ PP.02

นิคมอุตสาหกรรม อีสเทิร์น ซีบอร์ด (ระยอง)

เบอร์ติดต่อ 038-950562-4 ต่อ 118

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป	ของเสียอันตราย	นำกลับมาใช้ซ้ำ / ใช้ใหม่
		(Non-Hazardous Waste)	(Hazardous Waste)	(Reuse/Recycle)
กรกฎาคม	1.26	15.27	0.62	-
สิงหาคม	1.26	16.55	0.60	-
กันยายน	1.12	25.76	0.62	-
ตุลาคม	1.26	15.28	0.52	-
พฤศจิกายน	1.26	-	2.48	-
ธันวาคม	1.12	9.69	0.59	-
รวม (ตัน)	7.82	82.55	5.43	-

ลงชื่อ.....

.....

นางสาว.....

วันที่ 15 มกราคม พ.ศ. 2568



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2566

ชื่อโรงงาน Danieli Co., Ltd

เบอร์โทรศัพท์ 038-928000 ต่อ 5000

นิคมอุตสาหกรรม Eastern Seaboard

แปลงที่ K-9, K-10, K-11, K-12, K-12A, K-02, K-03

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)								รวม
		Non-Hazardous waste				Hazardous waste				
		011	071	045	074	042	073	049	045	
มกราคม	24.10	276.65	9.45			109.35	5.39			424.94
กุมภาพันธ์	24.63	287.19				118.58	3.34	0.85		434.59
มีนาคม	28.41	304.28				115.56	5.59			453.84
เมษายน	26.00	399.44				112.78	16.37			554.59
พฤษภาคม	33.15	425.47	42.97			92.70	4.74			599.03
มิถุนายน	33.22	262.97	65.19			134.87	38.97			535.22
กรกฎาคม	37.23	204.75	9.45			194.65	42.12			488.20
สิงหาคม	32.43	246.38	8.07			110.99	33.39			431.26
กันยายน	34.01	174.59	14.33			112.27	7.42	0.90	11.91	355.43
ตุลาคม	36.01	382.53		0.60		100.49	24.26		4.14	548.03
พฤศจิกายน	34.28	269.40		0.40		122.43	12.91		2.72	442.14
ธันวาคม	29.71	245.68	9.79	0.45	2.12	89.36	28.51	1.00	5.00	411.62
รวม (ตัน)	373.18	3479.33	159.25	1.45	2.12	1414.03	223.01	2.75	23.77	5678.89

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี ที่รายงาน 9 มกราคม พ.ศ. 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรม...อีสเทิร์นซีบอร์ด... พ.ศ. 2565

ชื่อ บริษัท.....ไทยอัสคาควา จำกัด....., แปลงที่...E-22..., เบอร์โทรศัพท์.....038-954523-6.....

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	6.60	59.49	49.65	-
กุมภาพันธ์	6.60	75.07	56.30	-
มีนาคม	7.11	74.69	17.99	-
เมษายน	6.10	86.58	27.16	-
พฤษภาคม	7.11	136.10	48.12	-
มิถุนายน	6.10	70.89	29.51	-
กรกฎาคม	7.11	109.52	38.94	-
สิงหาคม	6.60	46.68	63.32	-
กันยายน	6.60	209.45	30.60	-
ตุลาคม	6.60	109.01	40.38	-
พฤศจิกายน	6.60	105.80	27.48	-
ธันวาคม	6.10	112.29	55.09	-
รวม (ตัน)	79.25	1195.54	484.54	0.00

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี

co.,ltd.,...



บริษัท โตโก เซอิซากุสียู (ประเทศไทย) จำกัด
TOGO SEISAKUSYO (THAILAND) CO.,LTD.



64/163 หมู่ 4 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

64/163 MOO 4 EASTERN SEABOARD INDUSTRIAL ESTATE (RAYONG) T.PLUAKDAENG A PLUAKDAENG RAYONG 21140 THAILAND.

Tel. (66)-3368-3555 Fax. (66)-3368-3556 URL : http : // www.togoh.co.jp

ปริมาณของเสียอุตสาหกรรม ช่วงเดือน มกราคม - ธันวาคม 2567

บริษัท โตโก เซอิซากุสียู (ประเทศไทย) จำกัด แปลงที่ดินเลขที่ M.34 - 35 (โรงงานมาตรฐาน)

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด ระยอง เบอร์โทรศัพท์ 033-683-555

เดือน	General waste ขยะมูลฝอย (ตัน)	Non - Hazardous waste กากของเสียอุตสาหกรรม ทั่วไป (ตัน)	Hazardous waste กากของเสียอุตสาหกรรม อันตราย (ตัน)	Reuse / Recycle กากของเสียอุตสาหกรรม ที่ส่งกำจัดด้วยวิธีรีไซเคิล/ นำผ่านกระบวนการบำบัดใหม่ (ตัน)
มกราคม	2.94	-	5.166	49.29
กุมภาพันธ์	2.94	-	2.534	54.61
มีนาคม	2.94	-	4.258	41.37
เมษายน	2.94	-	2.416	31.75
พฤษภาคม	3.22	-	1.532	52.55
มิถุนายน	2.8	-	0.476	45.75
กรกฎาคม	3.22	-	4.564	51.45
สิงหาคม	3.08	-	3.54	50.86
กันยายน	2.94	-	0.498	43.24
ตุลาคม	3.22	-	4.349	49.13
พฤศจิกายน	2.94	-	2.166	46.21
ธันวาคม	2.82	-	4.472	48.07
รวม (ตัน)	36.00	0.00	35.97	564.28

ลงชื่อ.....

ข้อมูล

วัน - เดือน - ปี ที่รายงาน 10 มกราคม 2568

Astemo
Mobility Beyond

แบบฟอร์มรายงานการจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว

บริษัท.....ฮิตาชิ แอสเตโม ระยอง จำกัด แปลงที่ดินเลขที่..... P15, P16

นิคมอุตสาหกรรม.....เหมราชชลบุรี /อีสเทิร์นซีบอร์ด (ระยอง) /เหมราชอีสเทิร์นซีบอร์ด (ใส่เครื่องหมาย)

ประจำปี พ.ศ.....2567..... (ตั้งแต่วันที่ 1 ม.ค. - 31 ธ.ค. 2567)

ประเภท	ชนิด	ปริมาณ (หน่วย) Ton
1. ขยะมูลฝอย หรือขยะทั่วไป (แบบใบอนุญาตผู้จัดเก็บ และกำจัดขยะมูลฝอย)	1.1 ขยะมูลฝอยที่ไม่เป็นอันตราย Rubbish id of Non-hazardous	21.560
	รวม	21.560
2. ขยะอุตสาหกรรมที่ไม่เป็น อันตราย (แบบใบอนุญาต กบ.1)	2.1 เศษกระดาษ Paper 2.2 เศษไม้ Wood 2.3 เศษเหล็ก Steel 2.4 เศษเหล็กจากงานซ่อมบำรุง 2.5 เศษอลูมิเนียม 2.6 เศษพลาสติก Plastics 2.7 หินเจียร Grinding Wheel 2.8 วัสดุที่ไม่ปนเปื้อน 2.9 เศษโฟม	64.157 96.843 736.430 2.926 0.000 14.355 0.030 9.900 0.051
	รวม	924.692
3. ขยะอุตสาหกรรมที่เป็น อันตราย (แบบใบอนุญาต กบ.1)	3.1 ผงไลนิง (Lining) 3.2 ชิ้นส่วนผ้าเบรกที่ไม่ได้คุณภาพ (Lining Scrap),(Pad) 3.3 อังภาชนะปนเปื้อนน้ำมัน (สารเคมี) 3.4 หลอดไฟที่ใช้แล้ว 3.5 น้ำมันหล่อลื่นที่ใช้แล้ว (Used Oil) 3.6 เศษผ้าและถุงมือปนเปื้อน (Contaminated Garbage) 3.7 กระป๋องสเปรย์ (Spray Can) 3.8 น้ำมันจาระบี (SACHET GREASE) 3.9 น้ำหล่อเย็นที่ใช้แล้ว (Used coolant) 3.10 สารเคมีเสื่อมสภาพ (MEK + Sundine) 3.11 น้ำมันปนเปื้อนน้ำมัน 3.12 Ceramic piston	2.400 8.310 0.828 0.117 0.430 23.450 0.085 0.311 21.910 0.000 208.000 0.700

Hitachi Astemo Rayong Limited

Eastern Seaboard Industrial Estate (Rayong) 300/34-35 Moo 1, Tambol Tasit, Amphur Pluakdaeng, Rayong 21140 - THAILAND

Tel : +66 38 950 024

www.hitachiaestemo.com

	3.13 Rubber Scrap	0.133
	3.14 กากตะกอนจากระบบบำบัด	0.417
	รวม	267.091
	รวมทั้งหมด	1,191.780

ลงชื่อผู้ให้ข้อมูล...

(นางสาวมณีนุช เทียนสมชัย)

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อ บริษัท Aulrane (Thailand) Co.,Ltd แปลงที่ P-17 เบอร์โทรศัพท์ 033-017470-5

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	4.29	-	0.0007	5.34
กุมภาพันธ์	3.96	-	0.00054	10.5
มีนาคม	4.29	-	0.00076	12.06
เมษายน	3.63	-	0.00075	6.488
พฤษภาคม	4.62	-	0.00115	10.685
มิถุนายน	3.96	-	0.00077	10.54
กรกฎาคม	4.62	-	0.00060	12.19
สิงหาคม	4.29	-	0.00070	10.9
กันยายน	4.29	-	0.00080	8.52
ตุลาคม	4.29	-	0.00115	8.68
พฤศจิกายน	4.29	-	0.00121	9.55
ธันวาคม	3.96	-	0.00100	6.91
รวม (ตัน)	50.49	0	0.01013	112.343

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี พ.ร.บ. ๒๕๖๒

บริษัท เจสตี เบลลี แคมป์ คอมพานี (ประเทศไทย) จำกัด เบอร์โทรศัพท์ 038-926405
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ K-07, K-08

เดือน	ขยะมูลฝอย (ตัน)	ขยะติดเชื้อ (ตัน)	กากของเสียอุตสาหกรรม		
			Non-Hazardous waste ของเสียทั่วไป (ตัน)	Hazardous waste ของเสียอันตราย (ตัน)	Reuse / Recycle นำกลับมาใช้ซ้ำ/ใช้ใหม่ (ตัน)
มกราคม	21.87	0.0015	0	0	1.40
กุมภาพันธ์	14.23	0.0005	0	0	2.63
มีนาคม	25.79	0.0003	0	0	2.38
เมษายน	20.79	0.0005	7.52	3.30	19.19
พฤษภาคม	19.88	0.0010	0	0	4.82
มิถุนายน	20.19	0.0015	0	0	3.93
กรกฎาคม	16.09	0.0015	0	0	2.94
สิงหาคม	19.20	0.0005	0	0	3.41
กันยายน	19.35	0.0010	0	0	2.56
ตุลาคม	28.75	0.0020	0	0	3.02
พฤศจิกายน	24.80	0.0010	9.50	3.56	4.03
ธันวาคม	11.17	0.0000	51.50	4.36	20.73
รวม (ตัน)	242.11	0.01130	68.52	11.23	71.03

ลงชื่อ.....
ตำแหน่ง.....
วัน-เดือน-ปี.....

มกราคม - ธ.ค. 2567

ชื่อโรงงาน บจ. พอร์ต รอยัล เบอร์โทรศัพท์ 033-010923
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง แปลงที่ S31E

เดือน พ.ศ. 2567	ขยะมูลฝอย	กากอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ / ใช้ใหม่ (Reuse / Recycle)
มกราคม	0.56	3,642	-	4,353
กุมภาพันธ์	0.56	4,224	-	5,358
มีนาคม	0.70	6,297	-	4,085
เมษายน	0.56	5,134	-	4,492
พฤษภาคม	0.70	6,279	-	6,418
มิถุนายน	0.56	4,806	-	5,028
กรกฎาคม	0.56	4,949	-	4,837
สิงหาคม	0.70	6,420	-	6,446
กันยายน	0.56	5,850	-	4,854
ตุลาคม	0.56	3,700	-	6,836
พฤศจิกายน	0.70	5,495	-	5,767
ธันวาคม	0.56	6,519	-	5,213
รวม (ตัน)	7.28	63.32	0.00	63.69

ลงชื่อ

วัน-เดือน-ปีที่รายงาน

9 ม.ค. 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีทีอี เทคโนโลยี (ประเทศไทย) จำกัด HO 867P
นิคมอุตสาหกรรม อีทีอี ซีบอร์ด ระยอง

เบอร์โทรศัพท์ 039212300
แปลงที่ S-31E

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	4.29	0.96	-	-
กุมภาพันธ์	3.96	0.86	-	-
มีนาคม	4.29	-	-	-
เมษายน	3.96	0.67	-	-
พฤษภาคม	4.12	-	-	-
มิถุนายน	3.96	-	-	0.15
กรกฎาคม	4.62	-	-	-
สิงหาคม	4.29	1.67	-	-
กันยายน	4.29	-	-	0.05
ตุลาคม	4.29	1.22	-	-
พฤศจิกายน	4.29	1.66	-	-
ธันวาคม	3.96	-	-	0.09
รวม (ตัน)		7.04	0.00	0.24

ลงชื่อ
ตำแหน่ง
วันเดือนปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน บริษัท อนาคต ชินโซ (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 0958703168
แปลงที่ PX.32,PX.33

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2,090.00	88,710.00	8,130.00	1,980.00
กุมภาพันธ์	2,940.00	63,270.00	5,420.00	2,510.00
มีนาคม	2,940.00	77,550.00	5,820.00	1,190.00
เมษายน	2,800.00	62,040.00	7,620.00	160.00
พฤษภาคม	3,220.00	76,140.00	7,060.00	160.00
มิถุนายน	2,800.00	64,100.00	8,480.00	140.00
กรกฎาคม	3,220.00	76,631.00	7,280.00	1,280.00
สิงหาคม	3,080.00	68,910.00	7,410.00	710.00
กันยายน	2,940.00	64,130.00	1,040.00	880.00
ตุลาคม	3,220.00	81,215.00	7,890.00	880.00
พฤศจิกายน	2,940.00	89,114.00	15,089.00	980.00
ธันวาคม	2,800.00	56,920.00	750.00	690.00
รวม (กิโลกรัม)	34,980.00	668,730.00	81,979.00	11,560.00

ลงชื่อ
ตำแหน่ง
วันเดือนปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีสเทิร์นซีบอร์ด (ไทยแลนด์) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038959245
 แปลงที่ P-07

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.67	0	2.37	15.91
สิงหาคม	2.00	0	0.75	12.05
กันยายน	1.78	0	2.30	19.39
ตุลาคม	1.92	0	2.27	14.81
พฤศจิกายน	2.34	0	0.84	13.13
ธันวาคม	1.90	0	2.21	15.46
รวม (ตัน)	11.61	0	10.74	90.75

ลง
 ทำ
 วันที่ 16/01/2015

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีสเทิร์นซีบอร์ด (ไทยแลนด์) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-959245
 แปลงที่ C-80A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.44	0	6.72	44.51
สิงหาคม	0.45	0	9.67	39.15
กันยายน	0.4	0	12.47	43.98
ตุลาคม	0.51	0	8.89	44.96
พฤศจิกายน	0.37	0	7.08	39.44
ธันวาคม	0.54	0	17.62	44.05
รวม (ตัน)		0	62.45	255.99

ลง
 ทำ
 วันที่ 16/01/2015

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน เอฟทีเอส ออโตโมทีฟ (ไทยแลนด์) จำกัด โรงงาน 2
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-211200
แปลงที่ S-37

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	4,730	92,930	22,190	16,661
กุมภาพันธ์	5,625	78,110	840	2,500
มีนาคม	5,835	74,460	2,268	953
เมษายน	5,400	68,230	16,020	903
พฤษภาคม	6,765	34,450	3,866	1,800
มิถุนายน	7,020	79,540	6,580	908
กรกฎาคม	6,290	80,260	1,450	11,724
สิงหาคม	6,930	96,400	3,520	11,890
กันยายน	7,395	78,460	1,900	9,076
ตุลาคม	8,015	73,690	10,503	10,852
พฤศจิกายน	7,080	96,400	930	12,440
ธันวาคม	8,225	78,460	3,200	617
รวม	79,310	931,390	73,267	80,324

ข้อมูล
วัน-เดือน-ปี ที่รายงาน 22/01/2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน เอฟทีเอส ออโตโมทีฟ (ไทยแลนด์) จำกัด โรงงาน 1
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-211200
แปลงที่ E-05

เดือน	ขยะมูลฝอย (Kg.)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	7,720	109,170	8,100	2,073
กุมภาพันธ์	6,570	104,670	3,400	2,555
มีนาคม	7,485	107,110	4,210	1,736
เมษายน	5,645	92,420	6,480	1,085
พฤษภาคม	6,560	111,090	4,430	1,511
มิถุนายน	6,070	102,950	6,920	1,613
กรกฎาคม	5,875	99,610	6,840	1,678
สิงหาคม	7,185	113,340	9,840	3,963
กันยายน	6,960	109,074	5,610	2,035
ตุลาคม	6,950	99,240	10,970	3,258
พฤศจิกายน	6,350	90,260	5,400	6,132
ธันวาคม	8,420	92,000	7,600	6,300
รวม	81,790	1,230,934	79,800	33,939

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี ที่รายงาน 22/01/2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ.2567

ชื่อโรงงาน บ.เคจี สตีล (ประเทศไทย) จำกัด เบอร์โทรศัพท์ 033-103730-9
นิคมอุตสาหกรรม อีสเทิร์น ซีบอร์ด ระยอง แปลงที่ R02

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป(Non-Hazardous waste)	ของเสียอันตราย (Hazardous Waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1260	38,490.00	21,280.00	-
สิงหาคม	1260	81,710.00	48,300.00	-
กันยายน	1120	22,250.00	14,040.00	-
ตุลาคม	1400	58,820.00	15,048.00	-
พฤศจิกายน	1120	48,200.00	23,554.00	-
ธันวาคม	1120	37,740.00	35,300.00	-
รวม (ตัน)	7,280.00	287,210.00	157,522.00	-

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วันที่ _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อ บริษัท นิปปอน สตีล สตีล โปรดักส์ (ประเทศไทย) จำกัด, เบอร์โทรศัพท์ 038-954-435 ต่อ 502
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง), แปลงที่ S-31D

เดือน / พ.ศ. 2567	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous Waste)	ของเสียอันตราย (Hazardous Waste)	นำกลับมาใช้ใหม่/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	2.574	14.510	163.730	7.050
สิงหาคม	2.772	23.030	177.860	-
กันยายน	2.376	7.150	60.230	-
ตุลาคม	2.772	19.040	112.850	-
พฤศจิกายน	2.574	21.820	97.630	-
ธันวาคม	2.376	42.300	150.330	-
รวม (ตัน)	15.444	127.850	762.630	7.050

ลงชื่อ _____ ผู้ให้ข้อมูล

ตำแหน่ง : ผู้จัดการแผนกบุคคลและธุรการ
E-mail : natenuch-k@nsspt.co.th
วัน-เดือน-ปี ที่รายงาน : 17/01/2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน บริษัท มิตรชัย ไลน์ แมททีเรียลส์ (ประเทศไทย) จำกัด

เบอร์โทร 033-684289 ต่อ 9101-9102

นิคมอุตสาหกรรม นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยอง)

แปลงที่ I - 21

เดือน	ขยะมูลฝอย (kg.)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย(Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่(Reuse/Recycle)(Ton)
มกราคม	5,880.00	197.40	0.00	-
กุมภาพันธ์	5,880.00	257.08	7.81	171.64
มีนาคม	5,880.00	417.14	0.00	73.07
เมษายน	5,880.00	362.10	1.09	98.55
พฤษภาคม	6,440.00	464.97	18.60	213.78
มิถุนายน	5,600.00	521.08	17.09	192.73
กรกฎาคม	6,440.00	334.61	15.20	371.29
สิงหาคม	6,160.00	321.18	7.29	393.59
กันยายน	5,880.00	246.48	12.75	232.4
ตุลาคม	6,440.00	469.55	3.45	440.59
พฤศจิกายน	5,880.00	410.74	21.75	392.74
ธันวาคม	5,600.00	377.63	9.98	340.31
รวม (คั้น)	71.96	4,379.96	115.01	2,920.69

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี

ดลล้อม

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน : บริษัท บริษัท อีโรเทค แมมบูนพลด์เจริง (ประเทศไทย) จำกัด

เบอร์โทร : 038-959-353-5

นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ : R02A

เดือน	ขยะมูลฝอย (Ton)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste) (Ton)	ของเสียอันตราย (Hazardous waste) (Ton)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle) (Ton)
มกราคม	1.120	-	-	4.416
กุมภาพันธ์	1.120	-	1,740.00	2.483
มีนาคม	1.260	-	-	3.263
เมษายน	1.260	-	-	3.582
พฤษภาคม	1.260	-	-	5.956
มิถุนายน	1.120	-	1,260.00	5.398
กรกฎาคม	1.260	-	-	5.713.2
สิงหาคม	1.260	-	-	6.434
กันยายน	1.120	-	0.870	6.301
ตุลาคม	1.260	-	-	4.147
พฤศจิกายน	1.260	-	0.610	4.429
ธันวาคม	0.980	0.005	1.027	ไม่มีจำหน่าย
รวม (Ton)	14.280	0.005	3,002.51	46.407

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี ที่รายงาน

ผู้ให้ข้อมูล

เจ้าหน้าที่ความปลอดภัยและสิ่งแวดล้อม

15-Jan-68

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท เจริญโภคภัณฑ์อาหาร จำกัด (มหาชน)

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ (๐๖๖) ๙๐๔-๕๒๙

แปลงที่ -

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	560	-	-	26.05 ตัน
สิงหาคม	700	-	-	145.55 ตัน
กันยายน	560	-	-	55.25 ตัน
ตุลาคม	560	-	-	85.04 ตัน
พฤศจิกายน	700	-	-	-
ธันวาคม	560	-	-	105.59 ตัน
รวม (ตัน)	2,940 ๑.64	-	-	414.48 ตัน

ลงนาม
วันที่ 16/01/68

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท เจริญโภคภัณฑ์อาหาร จำกัด (มหาชน)

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ ๐๖๖-๑๙๙๒๒๔

แปลงที่ FM-05, ๕M-0๖

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1,360	-	-	0.560
กุมภาพันธ์	1,960	-	2.350	1.830
มีนาคม	1,120	-	0.900	1.470
เมษายน	1,960	-	-	0.360
พฤษภาคม	1,960	7.450	2.500	8.350
มิถุนายน	1,120	-	6.300	0.402
กรกฎาคม	1,360	-	6.830	3.300
สิงหาคม	1,360	-	-	0.456
กันยายน	1,120	-	1.650	0.600
ตุลาคม	1,400	-	3.610	0.560
พฤศจิกายน	1,120	-	-	0.120
ธันวาคม	1,120	-	4.020	11.546
รวม (ตัน)	10,560	7.450	31.060	28.486

ลงนาม
ตำแหน่ง ผู้จัดการ
วัน-เดือน-ปี ที่รายงาน 15-01-68 ๑๐25

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

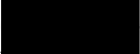
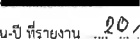
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีสเทิร์น (ประเทศไทย) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 065-7161400
 แปลงที่ I-50A/2

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	3.64		-	2.21
กุมภาพันธ์	3.36		-	2.18
มีนาคม	3.64		1.46	1.93
เมษายน	2.80		-	1.35
พฤษภาคม	3.92		1.91	2.80
มิถุนายน	3.36		-	3.24
กรกฎาคม	3.92		-	2.55
สิงหาคม	3.64		1.47	1.90
กันยายน	3.64		-	3.86
ตุลาคม	3.64		-	2.54
พฤศจิกายน	3.64		1.71	3.15
ธันวาคม	3.64		-	1.78
รวม (ตัน)	42.84		6.55	29.49

ลงชื่อ  ผู้ให้ข้อมูล
 ตำแหน่ง 
 วัน-เดือน-ปี ที่รายงาน 20/1/2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

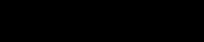
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีสเทิร์น (ประเทศไทย) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 038-015641-4
 แปลงที่ I-42B

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	0.700	12.3650	-	/
กุมภาพันธ์	0.560	8.7450	-	
มีนาคม	0.560	7.3150	0.070	
เมษายน	0.700	5.5500	-	
พฤษภาคม	0.560	11.2405	-	
มิถุนายน	0.560	7.3900	-	
กรกฎาคม	0.700	8.0000	-	
สิงหาคม	0.560	8.9135	0.120	
กันยายน	0.560	7.7200	-	
ตุลาคม	0.700	5.8350	-	
พฤศจิกายน	0.560	7.3600	-	
ธันวาคม	0.560	5.5850	-	
รวม (ตัน)	7.280	96.0490	0.190	

ลงชื่อ  ผู้ให้ข้อมูล
 ตำแหน่ง ผู้จัดการโรงงาน
 วัน-เดือน-ปี ที่รายงาน 16/01/2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติการตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-มิถุนายน พ.ศ.2567

ชื่อโรงงาน บริษัท ไทย โอเวอะ แพคเกจจิ้ง จำกัด

เบอร์โทรศัพท์ 038-954507-10

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ S-33.S-34

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่(Reuse/Recycle)
มกราคม	3.76	23.665	1.85	-
กุมภาพันธ์	3.76	32.418	2.55	-
มีนาคม	4.7	31.388	2.72	-
เมษายน	3.76	21.388	4.53	-
พฤษภาคม	3.76	42.855	2.69	-
มิถุนายน	4.7	29.999	3.97	-
กรกฎาคม	3.76	26.465	3.7	-
สิงหาคม	4.7	25.81	2.88	-
กันยายน	3.76	29.173	2.47	-
ตุลาคม	3.76	25.588	3.09	-
พฤศจิกายน	4.7	36.45	2.07	-
ธันวาคม	3.76	24.705	1.76	-
รวม (ตัน)	52.64	374.609	36.04	-

ลงชื่อ

ตำแหน่ง เจ้าหน้าที่ความปลอดภัย

วัน-เดือน-ปี ที่รายงาน 16 / 01 / 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติการตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน เอฟเทค (Thailand)

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทร 033 211 301-303

แปลงที่ S21

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป	ของเสียอันตราย	นำกลับมาใช้ซ้ำ/ใช้ใหม่
มกราคม	0.56	8,640.0	-	-
กุมภาพันธ์	0.56	8,450.0	-	-
มีนาคม	0.70	-	8,770.0	-
เมษายน	0.56	9,640.0	-	-
พฤษภาคม	0.42	7,350.0	-	-
มิถุนายน	0.70	4,140	-	-
กรกฎาคม	0.56	13,870	-	-
สิงหาคม	0.70	5,520	200	-
กันยายน	0.56	11,140	-	-
ตุลาคม	0.56	6,060	-	-
พฤศจิกายน	0.70	12,770	-	-
ธันวาคม	0.56	7,710	-	-
รวม (ตัน)	7.676	25,320		

ลงชื่อ
ตำแหน่ง
วัน-เดือน

ผู้ให้ข้อมูล
บริษัท เอฟเทค (ประเทศไทย) จำกัด
EFTEC
EFTEC (THAILAND) CO., LTD

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-เดือนธันวาคม พ.ศ.2567
ชื่อโรงงาน บริษัท สยาม เมทัล เทคโนโลยี จำกัด เบอร์ติดต่อ 038-954-300-4
นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ S.29A, S.29B

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous Waste)	ของเสียอันตราย (Hazardous Waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.82	19.83	7.5	
กุมภาพันธ์	1.68	23.74	7.73	
มีนาคม	1.82	12.2	7.14	
เมษายน	1.54	16.09	0	
พฤษภาคม	1.96	17.69	6.02	
มิถุนายน	1.68	5.64	5.87	
กรกฎาคม	1.96	7.1	4.21	
สิงหาคม	1.82	21.6	8.13	
กันยายน	1.82	0	6.34	
ตุลาคม	1.82	29.21	0	
พฤศจิกายน	1.82	19.77	8.26	
ธันวาคม	1.68	0	6.48	

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วัน-เดือน-ปี ที่รายงาน 15/1/2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการระหว่างมกราคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท แอมคอร์ เฟล็กซ์เบิ้ล ระยอง จำกัด เบอร์โทรศัพท์ 038-95-3200
นิคมอุตสาหกรรม นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ K04, K05

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.73	-	6.07	29.94
กุมภาพันธ์	4.12	-	12.56	52.71
มีนาคม	4.33	-	3.70	67.89
เมษายน	1.65	-	11.19	54.10
พฤษภาคม	4.46	-	6.00	62.01
มิถุนายน	2.87	-	11.66	56.28
กรกฎาคม	2.56	-	9.92	49.43
สิงหาคม	4.11	-	5.91	60.53
กันยายน	3.53	-	12.63	53.70
ตุลาคม	3.86	-	6.23	39.98
พฤศจิกายน	3.19	-	6.15	44.59
ธันวาคม	2.12	-	6.68	9.59

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วันที่รายงาน 13 /01 /2566

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ทรู คอร์ปอเรชั่น จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 046-026522-3
 แฟกซ์ 046-026522-3

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.67	5.46	-	-
กุมภาพันธ์	2.67	6.28	2.69	-
มีนาคม	2.64	7.59	-	-
เมษายน	2.64	6.04	-	-
พฤษภาคม	2.97	6.04	-	-
มิถุนายน	2.64	3.23	-	-
กรกฎาคม	3.30	4.9	-	-
สิงหาคม	3.30	10.26	-	-
กันยายน	2.64	11.10	1.42	-
ตุลาคม	3.30	4.66	-	-
พฤศจิกายน	2.64	3.60	-	-
ธันวาคม	2.64	9.22	-	-
รวม (ตัน)				

วัน-เดือน-ปี ที่รายงาน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท (ประเทศไทย) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-927127
 แฟกซ์ E29, E29, E30, E31, 525

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	4.79	197.97	0	0
กุมภาพันธ์	3.64	114.32	0.39	0
มีนาคม	4.64	114.64	0	0
เมษายน	3.56	76.98	0.56	0
พฤษภาคม	5.47	137.59	0.36	0
มิถุนายน	4.05	128.57	0	0
กรกฎาคม	4.32	122.24	0	0
สิงหาคม	4.37	126.58	0.5	0
กันยายน	4.47	111.26	0	0
ตุลาคม	4.70	99.51	0	0
พฤศจิกายน	3.84	133.94	0	0
ธันวาคม	4.06	85.35	0	0
รวม (ตัน)				

ลงชื่อ ...

ตำแหน่ง ...

วัน-เดือน-ปี ที่รายงาน

ข้อมูล

16/1/25

บันทึกปริมาณคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติงานตามมาตรการฯ เดือนมกราคม - เดือนกันยายน 2567

ชื่อโรงงาน... มาสด้า พาวเวอร์โทรน แมนูแฟคเจอริ่ง (ประเทศไทย) จำกัด

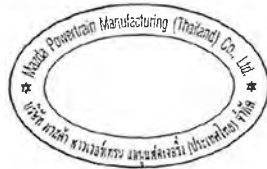
เบอร์โทรศัพท์... 038-998.680

นิคมอุตสาหกรรม... อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่... PX31B

** Engine Plant

เดือน / พ.ศ. 2567	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	5.46	98.38	12.83	0.42
กุมภาพันธ์	5.04	75.68	21.02	0.30
มีนาคม	5.46	77.58	18.74	0.32
เมษายน	5.46	54.30	14.56	1.74
พฤษภาคม	5.46	88.23	10.12	1.77
มิถุนายน	5.04	72.04	18.12	0.44
กรกฎาคม	5.04	118.89	26.37	0.32
สิงหาคม	5.04	82.49	20.78	0.46
กันยายน	5.46	64.22	23.35	0.55
ตุลาคม	5.46	68.18	34.61	0.92
พฤศจิกายน	5.46	104.05	35.47	1.45
ธันวาคม	4.20	28.51	35.16	0.37
รวม (ตัน)	62.58	932.53	271.12	9.04



ลงชื่อ... [Redacted] ผู้ให้ข้อมูล

ตำแหน่ง... [Redacted]

E-Mail... [Redacted]

วัน-เดือน-ปี ที่รายงาน... 17 JAN 2025

บันทึกปริมาณคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติงานตามมาตรการฯ เดือนมกราคม - เดือนกันยายน 2567

ชื่อโรงงาน... มาสด้า พาวเวอร์โทรน แมนูแฟคเจอริ่ง (ประเทศไทย) จำกัด

เบอร์โทรศัพท์... 038-998.680

นิคมอุตสาหกรรม... อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่... PX 30/1 - PX 30/6

** Transmission Plant

เดือน / พ.ศ. 2567	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	14.70	92.70	31.34	8.69
กุมภาพันธ์	14.70	105.55	40.71	4.76
มีนาคม	14.70	112.63	50.13	0.85
เมษายน	14.70	88.05	17.35	4.85
พฤษภาคม	15.40	121.55	39.98	5.79
มิถุนายน	13.30	91.48	33.95	0.77
กรกฎาคม	14.70	115.99	46.65	10.03
สิงหาคม	15.40	108.43	28.31	5.70
กันยายน	14.70	73.48	44.97	0.75
ตุลาคม	16.10	134.67	34.66	0.96
พฤศจิกายน	14.70	125.09	38.92	10.48
ธันวาคม	11.90	111.22	19.71	0.33
รวม (ตัน)	175.00	1,280.82	426.65	53.98



ลงชื่อ... [Redacted] ผู้ให้ข้อมูล

ตำแหน่ง... [Redacted]

E-Mail... [Redacted]

วัน-เดือน-ปี ที่รายงาน... 17 JAN 2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรม...อีสเทิร์นซีบอร์ด(ระยอง) มกราคม - ธันวาคม พ.ศ. 2567

ชื่อ บริษัท ไฟโอแอล (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม...อีสเทิร์นซีบอร์ด(ระยอง)

เบอร์โทรศัพท์.....038-955-412
แปลงที่ S-19A, S-08C, S-08A,S-08B, S-07A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.90	11.33	0.00	-
กุมภาพันธ์	1.99	13.09	4.78	-
มีนาคม	2.07	12.86	6.80	-
เมษายน	1.66	14.22	0.00	-
พฤษภาคม	1.96	15.05	4.25	-
มิถุนายน	1.79	11.79	5.46	-
กรกฎาคม	2.01	15.97	0.00	-
สิงหาคม	2.08	12.19	4.80	-
กันยายน	1.99	13.72	4.85	-
ตุลาคม	1.97	15.10	5.70	-
พฤศจิกายน	2.08	15.74	0.00	-
ธันวาคม	1.88	9.93	6.84	-
รวม (ตัน)	23.38	160.99	43.48	-

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง : Phat ผู้ช่วยจัดการ IATF & ISO14001
วัน-เดือน-ปี ที่ 2568

สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระบุดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท กันไอ เรซิน (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-954744

แปลงที่

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.32	0.147	61.62	38.161
สิงหาคม	1.32	1.242	47.08	26.437
กันยายน	1.32	1.424	97.97	35.394
ตุลาคม	1.32	4.712	77.36	36.935
พฤศจิกายน	1.32		37.92	42.612
ธันวาคม	1.32	1.329	99.60	31.054
รวม (ตัน)	7.92	8.854	421.54	210.593

ลง
คำ
วัน-เดือน-ปี ที่

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน บริษัท อะเดกะ โปล์ (เคมีคอล) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-959032-5
แปลงที่ P-01

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/รีไซเคิล (Reuse/Recycle)
มกราคม	1.120	8.830	16.900	0
กุมภาพันธ์	1.260	9.450	12.110	0
มีนาคม	1.120	14.090	15.120	0
เมษายน	1.120	0.000	4.880	0
พฤษภาคม	1.260	17.830	12.740	0
มิถุนายน	1.120	11.100	14.610	0
กรกฎาคม	1.260	11.410	11.820	0
สิงหาคม	1.260	17.790	14.970	0
กันยายน	1.260	11.380	7.130	0
ตุลาคม	1.260	5.090	15.420	0
พฤศจิกายน	1.120	10.920	16.460	0
ธันวาคม	1.120	16.560	14.240	0
รวม (ตัน)	14.280	134.450	156.400	0

ลง
ชื่อ
[Redacted]
วัน-เดือน-ปี ที่รายงาน : 17/01/2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อ บริษัท นิปปอน สตีล สตีล โปรดักส์ (ประเทศไทย) จำกัด,
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง),

เบอร์โทรศัพท์ 038-954-435 ต่อ 502
แปลงที่ P-26 , P-27

เดือน / พ.ศ. 2567	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous Waste)	ของเสียอันตราย (Hazardous Waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.820	15.560	122.230	3.385
สิงหาคม	1.960	28.440	134.320	2.707
กันยายน	1.680	13.640	141.950	2.400
ตุลาคม	1.960	11.990	145.950	2.620
พฤศจิกายน	1.820	16.420	100.510	2.383
ธันวาคม	1.680	18.160	168.660	2.745
รวม (ตัน)	10.920	104.210	813.620	16.240

ลงชื่อ — [Redacted] ให้ข้อมูล
วัน-เดือน-ปี ที่รายงาน : 17/01/2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท นิธิไซ์ เดนกิ (ประเทศไทย) จำกัด

เบอร์โทรศัพท์ 033-010928 ถึง 9

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง เลขที่ 64/108 ม. 4 ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง

แปลงที่ I-31/3A Microfactory

เดือน	ขยะมูลฝอย (ตัน) กิโลกรัม	กากของเสียอุตสาหกรรม (ตัน)		
		เสียทั่วไป (Non-Hazardous waste)	เสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	-			
กุมภาพันธ์	-			
มีนาคม	-			
เมษายน	-			
พฤษภาคม	-			
มิถุนายน	-			
กรกฎาคม	560			
สิงหาคม	700			
กันยายน	560			
ตุลาคม	560			
พฤศจิกายน	700			
ธันวาคม	560			
รวม (ตัน)				

NISSHO
NISSHO DENKI (THAILAND) CO. LTD.

ลงชื่อ..... ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน-เดือน-ปี ที่รายงาน 2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อบริษัท ไบโพลนส์ (ประเทศไทย) จำกัด

เบอร์โทรศัพท์ 038-957000 Ext.7350

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ E01, E02

เดือน	ขยะมูลฝอย (กิโลกรัม)	กากของเสียอุตสาหกรรม (กิโลกรัม)		
		ของเสียทั่วไป (Non-Hazardous Waste)	ของเสียอันตราย (Hazardous Waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	9,380	106,202	29,280	95,687
กุมภาพันธ์	9,290	58,868	6,170	34,518
มีนาคม	9,510	69,343	21,420	49,453
เมษายน	10,290	86,338	12,112	58,740
พฤษภาคม	10,380	109,063	16,980	65,703
มิถุนายน	8,940	79,696	18,070	67,276
กรกฎาคม	10,350	99,452	17,530	78,932
สิงหาคม	9,880	109,983	13,120	79,833
กันยายน	9,750	82,935	9,740	49,845
ตุลาคม	7,220	74,579	12,054	49,283
พฤศจิกายน	7,000	85,164	6,470	62,584
ธันวาคม	6,100	82,870	9,030	57,090
รวม (ตัน)	108,090	1,044,492	171,976	748,943

ลงชื่อ.....
ตำแหน่ง.....
วัน-เดือน-ปี ที่รายงาน 4 กุมภาพันธ์ 2568

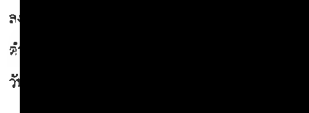
บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน โชนิชิ ออโต้ พาร์ท (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ 038-029007-9
แปลงที่ L12

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.64	0	0	1.148
กุมภาพันธ์	2.97	0	0.9	1.17
มีนาคม	2.64	0	0	1.116
เมษายน	2.64	0	0	0.8445
พฤษภาคม	2.97	0	0.27	1.409
มิถุนายน	2.64	0	0	1.0890
กรกฎาคม	2.97	0	0	0.879
สิงหาคม	2.97	0	0.828	0
กันยายน	2.97	0	0	1.516
ตุลาคม	2.97	0	1.150	1.141
พฤศจิกายน	2.64	0	0	1.964
ธันวาคม	2.64	0	1.923	1.534
รวม (ตัน)	37.66	0	5.07	13.81



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน JTEK Automotive (Thailand) CO., Ltd
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง (ISE)

เบอร์โทรศัพท์ 038-663500-99
แปลงที่ -

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	13.59	152.69	107.67	
สิงหาคม	13.59	199.74	100.20	
กันยายน	13.33	144.06	24.15	
ตุลาคม	12.10	142.60	94.53	
พฤศจิกายน	13.96	146.84	96.06	
ธันวาคม	12.06	152.26	92.77	
รวม (ตัน)				

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง
วัน-เดือน-.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท หวานล้ำอิเล็กทรอนิกส์ (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) แปลงเลขที่ 5234 IV 3638

เบอร์โทรศัพท์ 038-955671

เดือน	ขยะมูลฝอย (ตัน)	การของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	2	0	0	0.7
สิงหาคม	2	3.6	0	1.1
กันยายน	2	18	0	0.8
ตุลาคม	2	0	0	0
พฤศจิกายน	2	0	0	0
ธันวาคม	2	0	0	0
รวม (ตัน)	12	21.6	0	2.8

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

วันที่ออกรายงาน 3 กุมภาพันธ์ 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท วีทีซี จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด(ระยอง)

เบอร์โทรศัพท์ 038 016 335-7
แปลงที่ E-23, E-24, E-25

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.26	-	-	-
สิงหาคม	1.26	-	-	-
กันยายน	1.12	-	-	-
ตุลาคม	1.26	-	-	-
พฤศจิกายน	1.26	-	-	-
ธันวาคม	1.12	-	-	-
รวม (ตัน)	7.28	-	-	-

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

ผู้ให้ข้อมูล

2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน ผ. แอนคา แอวูแปคเจอวี่ โซลูชั่น (ประเทศไทย) จำกัด.

เบอร์โทรศัพท์

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด 10715 ม.4 ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140

แฟกซ์ 0-01

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/รีไซเคิล (Reuse/Recycle)
มกราคม	-	-	-	-
กุมภาพันธ์	-	-	-	-
มีนาคม	-	-	-	-
เมษายน	-	-	-	-
พฤษภาคม	0.28	-	-	-
มิถุนายน	0.56	-	-	-
กรกฎาคม	1.26	-	-	-
สิงหาคม	1.26	-	-	-
กันยายน	1.26	-	-	-
ตุลาคม	1.26	-	-	-
พฤศจิกายน	1.12	-	-	-
ธันวาคม	0.98	-	-	-
รวม (ตัน)	7.98	-	-	-

ลงชื่อ

ตำแหน่ง

วันเดือนปี ที่รายงาน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน ผ. แอนคา แอวูแปคเจอวี่ โซลูชั่น (ประเทศไทย) จำกัด.

เบอร์โทรศัพท์ 033-012399

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด 10919 ม.4 ต.ปลวกแดง อ.ปลวกแดง จ.ระยอง 21140

แฟกซ์ 0-20

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/รีไซเคิล (Reuse/Recycle)
มกราคม	8.82	0.30	0.83	21.10
กุมภาพันธ์	8.82	0.02	0.81	17.84
มีนาคม	8.82	0.06	0.74	22.24
เมษายน	4.2	0.03	0.26	24.63
พฤษภาคม	9.24	-	-	264.29
มิถุนายน	8.4	-	0.79	19.62
กรกฎาคม	9.66	-	9.75	25.27
สิงหาคม	9.24	-	0.20	19.31
กันยายน	8.82	-	6.04	14.56
ตุลาคม	6.44	-	-	12.48
พฤศจิกายน	5.88	-	1.54	15.06
ธันวาคม	2.8	-	8.84	16.62
รวม (ตัน)	91.14	0.35	29.8	441.67

ลงชื่อ

ตำแหน่ง

วันเดือนปี ที่รายงาน

ข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน น. แชนเคา เมเนจเม้นท์ โซลูชั่น (ประเทศไทย) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด, เขต 109/12 ม.1 ต.พุดกมดง อ.เมืองฉะเชิงเทรา จ.ฉะเชิงเทรา 21140

เบอร์โทรศัพท์ 033-012399
 แฟกซ์ 5-14

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	5.88	0.06	2.45	25.91
กุมภาพันธ์	5.88	0.02	2.26	21.90
มีนาคม	5.88	0.19	4.31	23.21
เมษายน	5.6	0.02	2.13	26.44
พฤษภาคม	6.16	0.14	4.16	323.03
มิถุนายน	5.6	0.20	3.88	22.95
กรกฎาคม	6.44	0	3.68	30.89
สิงหาคม	6.16	0	3.19	23.60
กันยายน	5.88	0.40	4.20	17.17
ตุลาคม	6.44	0	2.38	15.26
พฤศจิกายน	5.88	0.34	2.14	20.96
ธันวาคม	5.6	0.66	3.02	20.31
รวม (ตัน)	71.4	2.02	38.48	575.70

ลงชื่อ  ข้อมูล
 ตำแหน่ง 
 วัน-เดือน-ปี ที่รายงาน 

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โกลบอลแอสตี้ (ประเทศไทย) จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยะอง

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม		7.405	0	
สิงหาคม		13.035	0	
กันยายน		2.54	0	
ตุลาคม			0	
พฤศจิกายน		17.0	5.27	
ธันวาคม			0	
รวม (ตัน)		37.23	5.27	

ลงชื่อ  ข้อมูล
 ตำแหน่ง 
 วัน-เดือน-ปี ที่รายงาน 

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน 608 ที ซี เทคโนโลยี อินดัสทรี จำกัด

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-955-808

แปลงที่ I-40/1

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	4.29	5.67	0.47	2.59
กุมภาพันธ์	3.96	10.67	0	2.3
มีนาคม	4.29	5.81	3.06	2.184
เมษายน	3.96	11.02	0.43	2.495
พฤษภาคม	4.62	5.79	0.55	1.906
มิถุนายน	3.96	2.44	2.62	2.84
กรกฎาคม	3.96	11.9	0.74	2.047
สิงหาคม	4.29	9.81	0.52	2.11
กันยายน	4.29	8.74	0.51	2.98
ตุลาคม	4.29	6.14	0.6	1.79
พฤศจิกายน	4.29	5.73	0.61	1.67
ธันวาคม	3.6	6.54	0	1.671
รวม (ตัน)	49.8	91.86	10.14	26.543

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี ที่รายงาน 24/1/68

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน กอล์ฟ ทีเอส2 จำกัด

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-016-256 ต่อ 112

แปลงที่ R04,R04A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.70	0	0	0
สิงหาคม	0.56	0	0	0
กันยายน	0.56	0	0	0
ตุลาคม	1.12	0	0	0
พฤศจิกายน	0.56	0	0	0
ธันวาคม	0.56	0	0	0
รวม (ตัน)	4.08	0	0	0

ลงชื่อ

ตำแหน่ง Site Supervisor

วัน-เดือน-ปี ที่รายงาน 24 มกราคม 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน กัลฟ์ ทีเอส1 จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 0 38- 016-256 ต่อ 112
แปลงที่ R03A, R03B

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.56	0	0	0
สิงหาคม	0.56	0	0	0
กันยายน	0.56	0	0	0
ตุลาคม	0.70	0	0	0
พฤศจิกายน	0.56	0	0	0
ธันวาคม	0.56	0	0	0
รวม (ตัน)	3.5	0	0	0

ลงชื่อ.....
ตำแหน่ง.....
วัน-เดือน-ปี.....

บันทึกปริมาณการคัดแยกกากของเสียและขยะมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือน กรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงานบริษัท อิงเกรส ออโตเวเนเจอร์ จำกัด..... เบอร์โทรศัพท์038-954942-5.....
นิคมอุตสาหกรรมนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)..... แปลงที่Plot S-26.....

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	4,930	9630		
สิงหาคม	7,050	10190		
กันยายน	5,500	19640	5710	
ตุลาคม	5,000	15570		
พฤศจิกายน	4,860	12330		
ธันวาคม	3,040	19800		
รวม (ตัน)				

ลงชื่อ.....ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน-เดือน-ปี.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน : Maxxis International (Thailand) Co., Ltd. (Plant B)
นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ : 038-955856
แปลงที่ : N-01, N-02, N-03, N-04, N-08A

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	8.91	31.75	35.19	
สิงหาคม	8.91	-	6.36	
กันยายน	8.25	-	15.02	
ตุลาคม	8.91	89.92	-	
พฤศจิกายน	8.58	-	-	
ธันวาคม	7.92	55.54	-	
รวม (ตัน)	51.48	177.21	56.57	-

ลงชื่อ ผู้ข้อมูล
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน : Maxxis International (Thailand) Co., Ltd. (Plant A)
นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ : 038-955856
แปลงที่ : N-01, N-02, N-03, N-04, N-08A

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	8.91	72.55	19.93	
สิงหาคม	8.91	16.20	-	
กันยายน	8.25	29.14	-	
ตุลาคม	8.91	54.02	6.98	
พฤศจิกายน	8.58	131.25	-	
ธันวาคม	7.92	97.29	-	
รวม (ตัน)	51.48	400.45	26.91	-

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ มกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โออีแอลเอสแอนซ์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดระยอง

เบอร์โทรศัพท์ 038-954-111
แปลงที่ E-12B, E-13, E-14

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	67.6	22.0	107.37	1644.22
กุมภาพันธ์	55.53	21.66	111.08	1,689.51
มีนาคม	79.5263	21.45	112.575	1639.57
เมษายน	431.51	15.55	101.945	1516.56
พฤษภาคม	58.5216	28.235	100.835	1860.39
มิถุนายน	66.7955	24.03	105.925	1852.375
กรกฎาคม	98.51	24.70	123.71	2,060.64
สิงหาคม	64.1986	21.245	156.35	2141.58
กันยายน	75.4956	22.07	124.395	1779.97
ตุลาคม	58.3762	19.065	105.275	1796.255
พฤศจิกายน	345.63	24.26	104.905	1845.285
ธันวาคม	98.3816	5.855	47.7	320.74
รวม (ตัน)	1,500.1	250.2	1,902.1	20,147.1

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
E-mail _____
วัน- _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Lear Automotive (Thailand) Co., Ltd.
นิคมอุตสาหกรรม Eastern Seaboard - Rayong

เบอร์โทรศัพท์ 039-016346 # 1304
แปลงที่ S-310

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	3.30		0.1004	
กุมภาพันธ์	2.64		0.0106	
มีนาคม	2.64	1.130	0.0259	
เมษายน	2.97		0.0155	
พฤษภาคม	2.97		0.0052	
มิถุนายน	2.64	0.90	0.0385	
กรกฎาคม	3.30		0.0029	
สิงหาคม	2.64		0.0088	
กันยายน	2.97		0.0130	
ตุลาคม	2.97		0.0048	
พฤศจิกายน	2.64		0.0132	
ธันวาคม	2.97	1.170	0.0087	
รวม (ตัน)				

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วัน- _____ 2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2562

ชื่อโรงงาน Nex Coating Ltd.

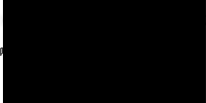
เบอร์โทรศัพท์ 038 016450-1

นิคมอุตสาหกรรม Easternseboard Industrial Estate

แปลงที่ L13/13, L15/15

Ready Built Factory

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	0.56	3.54	2.23	
กุมภาพันธ์	0.70	4.27		
มีนาคม	0.56	2.96	5.99	
เมษายน	0.56	4.11	2.5	
พฤษภาคม	0.70	4.22	5.91	
มิถุนายน	0.56			
กรกฎาคม	0.56	3.4		
สิงหาคม	0.70	3.86	2.78	
กันยายน	0.56	3.55		
ตุลาคม	0.70			
พฤศจิกายน	0.56	4.14	5.73	
ธันวาคม			3.38	
รวม (ตัน)	6.72	34.05	28.52	

ลงชื่อ 

3

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ กรกฎาคม-ธันวาคม พ.ศ. 2562

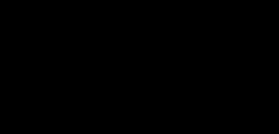
ชื่อโรงงาน บริษัท เจล โอ จี คอมบิสลอค จำกัด

เบอร์โทรศัพท์ 03895 4100 ต่อ 303

นิคมอุตสาหกรรม นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยอง)

แปลงที่ E06, E07A

เดือน / พ.ศ. 2560	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	3.42	10.46	14.35	714.78
สิงหาคม	4.36	9.73	8.12	781.70
กันยายน	4.03	12.4	10.99	825.92
ตุลาคม	4.9	8.97	11.14	859.50
พฤศจิกายน	4.64	8.25	14.26	1047.51
ธันวาคม	5.27	8.99	13.44	832.70
รวม (ตัน)	26.62	58.8	72.3	5062.10

ลงชื่อ  ผู้รับผิดชอบ
ตำแหน่ง Department
E-mail
วัน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน จอห์นสัน คอนโทรล-ฮิตาชิ คอมโพเนนท์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 065-717-3783
แปลงที่ I-44

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2795	3.779	0.960	-
กุมภาพันธ์	3.075	2.965	0.350	-
มีนาคม	3.485	3.227	0.470	-
เมษายน	3.095	1.385	-	-
พฤษภาคม	3.460	8.691	0.710	-
มิถุนายน	3.465	1.657	-	-
กรกฎาคม	2.045	1.069	0.530	-
สิงหาคม	3.310	3.202	-	-
กันยายน	3.270	2.108	-	-
ตุลาคม	3.645	4.852	0.570	-
พฤศจิกายน	4.465	3.716	0.640	-
ธันวาคม	4.020	3.006	0.540	-
รวม (ตัน)	40.130	39.657	4.790	-

ลงชื่อ.....ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน/เดือน/ปี.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โกลบอล อี-แอนด์ เซลล์ เทคโนโลยี จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 090-016519 910 220
แปลงที่ R 14

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.68	48.242	0.27	0.21
กุมภาพันธ์	1.68	61.386	0.2	0.159
มีนาคม	1.82	68.172	0.13	0.258
เมษายน	1.54	36.334	-	-
พฤษภาคม	1.46	82.633	0.95	0.578
มิถุนายน	1.68	61.953	0.2	-
กรกฎาคม	1.96	61.306	0.35	0.32
สิงหาคม	1.82	38.534	-	-
กันยายน	1.82	20.125	0.4	0.356
ตุลาคม	1.82	52.606	0.29	0.315
พฤศจิกายน	1.82	93.413	0.27	-
ธันวาคม	1.68	72.525	0.42	0.413
รวม (ตัน)	21.28 Ton	806.633 Ton	1.78 Ton	2.309 Ton

ลงชื่อ.....ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน/เดือน/ปี.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน ชาวเขาไทย ฟอสฟอรัส
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-212-991-3
แปลงที่ EM-04

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2	303.74	73.63	
กุมภาพันธ์	2.5	288.37	46.10	2140 kg
มีนาคม	3	288.3	66.62	
เมษายน	2	252.53	22.73	81 kg.
พฤษภาคม	3	303.66	22.05	
มิถุนายน	2.5	286.55	39.15	
กรกฎาคม	1.2	286.48	16.25	
สิงหาคม	2.2	273.36	30.25	980 kg
กันยายน	2.4	273.88	35.66	
ตุลาคม	2.0	309.18	56.54	
พฤศจิกายน	2.1	315.88	40.21	1067 kg.
ธันวาคม	1.8	321.16	34.72	
รวม (ตัน)	26.7	6060.42	483.91	

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือน มกราคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน : Aoyama Thai Co., Ltd.
นิคมอุตสาหกรรม : Eastern Seaboard Industrial Estate.

เบอร์โทรศัพท์ : 033-109377-385
แปลงที่ : 1.35.1.36

เดือน	ขยะมูลฝอย (Ton)	กากของเสียอุตสาหกรรม (Ton)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	5.60	150.27	62.41	
กุมภาพันธ์	5.88	190.98	76.42	
มีนาคม	6.16	193.02	83.35	
เมษายน	5.88	152.69	123.24	
พฤษภาคม	6.44	181.87	93.58	
มิถุนายน	5.60	184.87	106.70	
กรกฎาคม	6.44	153.67	131.53	
สิงหาคม	6.16	211.99	63.52	
กันยายน	5.88	180.68	62.36	
ตุลาคม	6.44	182.48	91.56	
พฤศจิกายน	5.88	224.72	77.83	
ธันวาคม	5.88	197.02	157.62	
รวม (ตัน)	72.24	2,204.24	1,130.12	-

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี ที่รายงาน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีโรเซอ (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 039 119 676-8 ต่อ 110
แปลงที่ Bx-34

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1320 kg	-	7.56 ตัน	-
กุมภาพันธ์	1630 kg	-	6.93 ตัน	-
มีนาคม	1320 kg	-	10.19 ตัน	-
เมษายน	1,400 kg	-	9.86 ตัน	-
พฤษภาคม	1,320 kg	-	8.21 ตัน	-
มิถุนายน	1,540 kg	-	0.42 ตัน	-
กรกฎาคม	1,960 kg	-	18.57 ตัน	-
สิงหาคม	1,320 kg	-	-	-
กันยายน	1,320 kg	-	11.61 ตัน	-
ตุลาคม	1,320 kg	-	6.42 ตัน	-
พฤศจิกายน	1,320 kg	-	-	-
ธันวาคม	1,630 kg	-	15.20 ตัน	-
รวม (ตัน)	21,000 kg / 21 ตัน	-	94.37 ตัน	-

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ.2567

ชื่อโรงงาน บริษัท แอททาส (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ 033-103770# 1021
แปลงที่ S-12 S-13

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.260	0.000	0.000	0.268
กุมภาพันธ์	1.120	0.000	0.167	0.448
มีนาคม	0.980	0.000	0.019	0.371
เมษายน	1.120	0.000	0.022	0.463
พฤษภาคม	0.980	0.000	0.000	0.728
มิถุนายน	1.120	0.000	0.003	0.571
กรกฎาคม	1.400	0.000	2.478	0.520
สิงหาคม	1.400	0.000	0.080	0.743
กันยายน	1.260	0.000	0.000	0.343
ตุลาคม	1.260	0.000	0.000	0.202
พฤศจิกายน	1.120	0.000	1.170	0.840
ธันวาคม	1.120	0.000	0.150	0.103
รวม (ตัน)	14.140	0.000	4.089	2.850

ลงชื่อ
ตำแหน่ง
E-mail
วัน-เดือน-ปี

ไม่ข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ.2567

ชื่อโรงงาน บริษัท แคมพอสเตอร์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ 033-103770# 1021
แปลงที่ ๙-๐4, ๙-๐5, ๙-๐6

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2,800	0.000	0.120	4.037
กุมภาพันธ์	2,940	1.714	0.336	5.566
มีนาคม	2,660	0.000	0.211	4.422
เมษายน	2,240	0.000	0.130	4.324
พฤษภาคม	3,080	1.942	0.160	5.901
มิถุนายน	2,660	0.000	0.250	4.220
กรกฎาคม	3.08	0.000	0.505	5.252
สิงหาคม	3.08	1.798	0.340	4.870
กันยายน	2.94	2.103	0.962	3.506
ตุลาคม	3.22	0.000	0.290	5.131
พฤศจิกายน	3.36	1.953	0.401	4.479
ธันวาคม	2.80	1.025	0.363	5.789
รวม (ตัน)	34,860	10.535	4.068	28.471

ลงชื่อ
ตำแหน่ง
E-mail
วัน

ข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ.2567

ชื่อโรงงาน : บริษัท ฮาล อะลูมิเนียม (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ : 033-012-055
แปลงที่ : PX30A และ 30A/1

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้/ใช้ใหม่ (Reuse/Recycle)
ม.ค.-24	2,940	96.020	48.778	0.70
ก.พ.-24	2,800	101.062	47.882	0.66
มี.ค.-24	2,940	111.180	59.923	0.38
เม.ย.-24	2,240	81.278	32.845	0.40
พ.ค.-24	3,080	100.721	65.428	0.51
มิ.ย.-24	2,660	96.659	35.312	0.38
ก.ค.-24	3,080	103.553	49.796	0.43
ส.ค.-24	3,080	95.698	52.132	0.52
ก.ย.-24	2,940	117.293	46.098	0.64
ต.ค.-24	3,080	137.205	42.978	0.33
พ.ย.-24	2,940	105.388	41.939	0.50
ธ.ค.-24	2,800	95.499	35.098	0.62

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

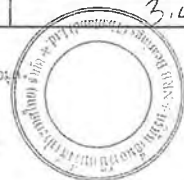
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท เ็นอาร์บี แปรรูป (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ 038-๙55๕2๔-25
แฟกซ์ PX-06

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	4.4	-	35 ตัน	0.156 ตัน
กุมภาพันธ์	4.7	-	45 ตัน	0.3๙3 ตัน
มีนาคม	4.7	-	80 ตัน	0.114 ตัน
เมษายน	4.4	-	140 ตัน	0.465 ตัน
พฤษภาคม	4.7	-	85 ตัน	0.173 ตัน
มิถุนายน	4.7	-	40 ตัน	0.388 ตัน
กรกฎาคม	5.0	-	๑5 ตัน	๐.๑50 ตัน
สิงหาคม	5.0	-	85 ตัน	0.310 ตัน
กันยายน	4.7	-	108 ตัน	0.242 ตัน
ตุลาคม	5.0	-	๗7 ตัน	0.268 ตัน
พฤศจิกายน	4.7	-	140 ตัน	0.368 ตัน
ธันวาคม	4.4	-	๑๔ ตัน	0.311 ตัน
รวม (ตัน)	56.4 ตัน	-	104๙ ตัน	3.4 ตัน

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วัน-เดือน-ปี ที่รายงาน _____ ๐๒๕



บันทึกปริมาณการคัดแยกกากของเสียและขยะมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-มิถุนายน พ.ศ.2567

ชื่อโรงงาน บริษัท โอซากะทราซึ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038 - 950559 - 61
แฟกซ์ R02B

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ / ใช้ใหม่ (Reuse / Recycle)
มกราคม	1.680	2.880	-	-
กุมภาพันธ์	1.820	5.280	1.000	-
มีนาคม	1.820	6.820	9.290	-
เมษายน	1.400	2.810	-	-
พฤษภาคม	1.820	3.030	7.150	-
มิถุนายน	1.820	4.200	-	-
กรกฎาคม	1.820	10.260	9.870	-
สิงหาคม	1.960	3.400	0.800	-
กันยายน	1.680	3.820	11.550	-
ตุลาคม	1.960	4.450	8.470	-
พฤศจิกายน	1.820	7.560	0.500	-
ธันวาคม	1.680	10.880	9.660	-
รวม (ตัน)	21.280	65.390	58.290	-

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วัน-เดือน-ปี ที่รายงาน _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2566

ชื่อโรงงาน บริษัท ทาเคดะอุตสาหกรรม (ไทยแลนด์) จำกัด

เบอร์โทรศัพท์ 033-010-962 - 3

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ 17937

เดือน/พ.ศ. 2567	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.24	168.940	0	0
กุมภาพันธ์	2.24	161.300	0.62	0
มีนาคม	2.52	176.570	0	0
เมษายน	2.10	125.000	0	0
พฤษภาคม	2.52	173.180	0.28	0
มิถุนายน	2.38	139.880	0	0
กรกฎาคม	2.38	159.566	0	0
สิงหาคม	2.52	158.500	0	0
กันยายน	2.38	143.260	0.406	0
ตุลาคม	2.10	143.050	0	0
พฤศจิกายน	2.52	156.640	0.99	0
ธันวาคม	2.24	132.960	0	0
รวม (ตัน)	28.14	1838.846	2.296	0



ลงชื่อ

ผู้ให้ข้อมูล

joirawong@krd.co.th

วัน-เดือน-ปี ที่รายงาน

16-Jan-25

สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Maxwell Foods (Asia)

เบอร์โทรศัพท์ 05-7465445

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ P2 1/1

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	560 kg	กากของเสีย + พลาสติก 0.2	พ. ขยะ กาก หักปนอื่น	-
กุมภาพันธ์	560 kg	-	ขยะ กากของเสีย (1 ตัน)	-
มีนาคม	400 kg	กากของเสีย + พลาสติก 0.28	2 ขยะทั่วไป	-
เมษายน	560 kg	กากของเสีย 0.46	ขยะของเสียจาก (0.5 ตัน)	-
พฤษภาคม	560 kg	กากของเสีย 0.38	-	-
มิถุนายน	700 kg	-	-	-
กรกฎาคม	1400 kg	กากของเสีย 0.38	-	-
สิงหาคม	1260 kg	กากของเสีย 0.38	-	-
กันยายน	1120 kg	กากของเสีย 0.35	-	-
ตุลาคม	1120 kg	-	-	-
พฤศจิกายน	1260 kg	กากของเสีย 0.9	-	-
ธันวาคม	1120 kg	-	-	-
รวม (ตัน)	10.9 ตัน	9.23 ตัน	-	-

บันทึกปริมาณการคัดแยกกากของเสีย และมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท แอสเซฟ พาสซีฟ เซลล์ ซีลเดมส์ (ไทยแลนด์) จำกัด เบอร์โทรศัพท์ 038-927810
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ S.30B, S.30C

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	10.5	3.32	1.28	52.1
กุมภาพันธ์	10.5	6.58	2.62	54.14
มีนาคม	10.92	4.93	0.96	59.71
เมษายน	9.66	2.75	0.63	39.50
พฤษภาคม	11.34	4.34	1.27	63.63
มิถุนายน	10.5	3.30	1.12	59.01
กรกฎาคม	11.34	2.69	0.92	58.66
สิงหาคม	11.34	2.40	1.27	56.17
กันยายน	10.5	3.59	1.12	54.96
ตุลาคม	11.34	20.32	1.02	47.56
พฤศจิกายน	10.5	3.84	1.23	46.29
ธันวาคม	10.5	2.48	0.60	21.13
รวม (ตัน)	107.1	60.58	14.14	612.88

ลง
ตำแหน่ง

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะเวลาดำเนินการ ระหว่างเดือน มกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน : บริษัท ไทยซัมมิท อีสเทิร์น ซีบอร์ด โอโตพาร์ท อินดัสตรี จำกัด แปลงที่ : I-18
นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด เบอร์โทรศัพท์ : 038-667999

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	20.808		0.000	782.530
กุมภาพันธ์	20.680		0.980	705.770
มีนาคม	19.060		2.910	668.130
เมษายน	16.880		4.800	546.923
พฤษภาคม	21.896		2.030	654.100
มิถุนายน	19.592		0.000	658.325
กรกฎาคม	26.872		0.000	769.636
สิงหาคม	26.672		13.760	694.855
กันยายน	31.960		0.000	765.670
ตุลาคม	21.216		4.280	706.914
พฤศจิกายน	18.996		1.800	688.690
ธันวาคม	12.532		0.180	151.320
รวม (ตัน)	257.14		30.74	7,790.86

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะเวลาดำเนินการ ระหว่างเดือน มกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน : บริษัท ไทยซัมมิท อีสเทิร์น ซีบอร์ด โอโตพาร์ท อินดัสตรี จำกัด
นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด

แปลงที่ : I-25, I-26
เบอร์โทรศัพท์ : 038-667999

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	5.202		0.000	210.165
กุมภาพันธ์	5.165		0.665	159.090
มีนาคม	4.765		0.550	175.730
เมษายน	4.220		0.020	137.475
พฤษภาคม	5.474		0.580	218.410
มิถุนายน	4.898		0.000	191.015
กรกฎาคม	6.718		0.000	200.674
สิงหาคม	6.668		1.450	224.095
กันยายน	7.990		0.000	175.525
ตุลาคม	5.304		2.200	167.799
พฤศจิกายน	4.749		0.000	191.050
ธันวาคม	3.133		0.000	30.960
รวม (ตัน)	64.29		5.47	2,081.99

ลงชื่อ
ตำแหน่ง เจ้า
วัน-เดือน-ปี

สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะเวลาดำเนินการ พ.ศ. 2567

ชื่อโรงงาน.....บริษัท แอลซีโอที (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม.....อีสเทิร์น ซีบอร์ด (ระยอง)

เบอร์โทรศัพท์.....0381090483, 0657274510
แปลงที่.....PY08, PY09

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.07	-	-	-
กุมภาพันธ์	3.408	-	24.22	-
มีนาคม	1.36	44.95	21.72	-
เมษายน	3.09	-	-	-
พฤษภาคม	3.17	-	23.59	-
มิถุนายน	2.1	29.87	21.45	-
กรกฎาคม	1.11	-	26.19	-
สิงหาคม	2.25	-	21.63	-
กันยายน	3.37	35.29	-	-
ตุลาคม	1.84	-	32.03	-
พฤศจิกายน	1.79	-	12.68	-
ธันวาคม	2.61	-	13.69	-
รวม (ตัน)	27.168			

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปีที่รายงาน

หน้าข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ฟิลิปป์ ฟู้ดส์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-950-745
แฟกซ์ 1.10

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.12	-	3.051	-
กุมภาพันธ์	1.26	-	-	-
มีนาคม	1.12	-	-	-
เมษายน	1.12	0.24	4.29	-
พฤษภาคม	1.26	-	-	-
มิถุนายน	1.12	-	-	-
กรกฎาคม	1.26	1.375	4.06	-
สิงหาคม	1.26	-	-	-
กันยายน	1.26	-	-	-
ตุลาคม	1.26	1.313	3.75	-
พฤศจิกายน	1.12	-	-	-
ธันวาคม	1.12	0.646	-	-
รวม (ตัน)	14.28	3.624	15.151	-

ลงชื่อ
ตำแหน่ง
วันที่

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ.2567

ชื่อโรงงาน ฟู้ดส์ อินดัสทรี (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-109-555
แฟกซ์ 001

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.680	48.910	13.440	-
กุมภาพันธ์	1.680	38.980	9.730	-
มีนาคม	1.820	48.564	2.272	-
เมษายน	1.260	26.560	-	-
พฤษภาคม	1.820	38.900	10.486	-
มิถุนายน	1.540	39.480	1.245	-
กรกฎาคม	1.960	49.821	8.274	-
สิงหาคม	1.820	47.960	9.864	-
กันยายน	1.820	35.290	3.230	-
ตุลาคม	1.820	42.960	10.290	-
พฤศจิกายน	1.820	47.680	0.200	-
ธันวาคม	-	-	-	-
รวม (ตัน)	19.04	465.105	69.031	-

ลงชื่อ
ตำแหน่ง
วันที่

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน บริษัท ดีวี (ประเทศไทย) จำกัด เบอร์โทรศัพท์ 033-103700
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) แปลงที่ PP-01, P-08, P-09, S31/F

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	4.7	482.61	19.62	369.19
สิงหาคม	4.91	479.28	28.15	432.96
กันยายน	3.82	405.44	19.93	299.61
ตุลาคม	5.13	430.46	21.99	416.07
พฤศจิกายน	4.63	404.02	16.12	379.32
ธันวาคม	3.33	324.88	19.2	169.49
รวม (ต้น)	26.52	2,526.69	125.21	2,066.64

ลงชื่อ _____ ผู้ให้ข้อมูล
 ตำแหน่ง _____
 วัน-เดือน-ปี ที่รายงาน _____

สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน _____ เบอร์โทรศัพท์ _____
 นิคมอุตสาหกรรม _____ แปลงที่ _____

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	112๐ กก.			
กุมภาพันธ์	112๐ กก.			
มีนาคม	14๐๐ กก.			
เมษายน	112๐ กก.			
พฤษภาคม	14๐๐ กก.			
มิถุนายน	112๐ กก.			
กรกฎาคม	112๐ กก.			
สิงหาคม	14๐๐ กก.			
กันยายน	112๐ กก.			
ตุลาคม	112๐ กก.			
พฤศจิกายน	14๐๐ กก.			
ธันวาคม	112๐ กก.			
รวม (ต้น)	14.5 ต้น			

ลงชื่อ _____ ผู้ให้ข้อมูล
 ตำแหน่ง _____
 วัน-เดือน-ปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ไทโร ก๊าซ จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด โซน ๐๑

เบอร์โทรศัพท์ ๐๙๘-๒๖๒๙๓๐๗
แฟกซ์ที่ ๐๙๖, ๑๒๕

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	๕๐๐ kg → 0.๕๐ Ton			
สิงหาคม	๕๖๐ kg → 0.๕๖ Ton			
กันยายน	๕๖๐ kg → 0.๕๖ Ton			
ตุลาคม	๕๐๐ kg → 0.๕๐ Ton			
พฤศจิกายน	๕๖๐ kg → 0.๕๖ Ton			
ธันวาคม	๕๐๐ kg → 0.๕๐ Ton			
รวม (ตัน)	๓,๗๘๐ kg → 3.๗๘ Ton			

วันที่รายงาน ๔/๑/๒๕

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อินทอโร จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด โซน ๐๑ (C NHA)

เบอร์โทรศัพท์ ๐๓๘-๓๕๙๓๓๘
แฟกซ์ที่ ๓-๑๒

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	0.56	-	-	-
กุมภาพันธ์	0.๕๐	-	-	-
มีนาคม	0.56	-	-	-
เมษายน	0.๕๐	-	-	-
พฤษภาคม	0.56	-	-	-
มิถุนายน	0.๕๖	-	-	-
กรกฎาคม	0.56	-	-	-
สิงหาคม	0.56	-	๒๙.3	-
กันยายน	0.๕๐	-	-	-
ตุลาคม	0.๕๐	-	-	-
พฤศจิกายน	0.56	-	-	-
ธันวาคม	0.56	-	-	-
รวม (ตัน)				

๘๘

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน ยานากาวา เทคโนโลยีพอร์ซ (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033 212995-7
แปลงที่ EM-07,EM-08

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.40	75.51	4.83	-
กุมภาพันธ์	2.40	85.65	11.82	-
มีนาคม	2.40	157.19	0.00	-
เมษายน	2.40	71.59	12.43	-
พฤษภาคม	2.10	85.36	5.18	-
มิถุนายน	2.40	68.90	12.23	-
กรกฎาคม	1.80	74.24	0.00	-
สิงหาคม	2.10	82.01	12.44	-
กันยายน	2.10	80.16	5.76	-
ตุลาคม	0.90	90.74	11.33	-
พฤศจิกายน	1.50	87.63	0.00	-
ธันวาคม	1.50	87.60	15.62	-
รวม (ตัน)	24.00	1046.58		-

ลงชื่อ.....
ตำแหน่ง.....
วัน-เดือน.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน..... อูทีโนะ เพรส (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม..... อีสเทิร์นซีบอร์ด(ระยอง)

เบอร์โทรศัพท์..... 033 011551 ต่อ 304
แปลงที่.....

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	-	-	-	-
กุมภาพันธ์	-	-	-	-
มีนาคม	-	-	-	-
เมษายน	-	-	-	-
พฤษภาคม	-	-	-	-
มิถุนายน	-	-	-	-
กรกฎาคม	4,620	109,310	4,420	-
สิงหาคม	4,290	79,577	1,920	-
กันยายน	4,290	89,103	4,920	-
ตุลาคม	4,290	75,004	4,670	-
พฤศจิกายน	4,290	89,937	4	-
ธันวาคม	3,960	75,568	8,270	-
รวม (ตัน)	25,740	518,499	28,200	-

ลงชื่อ.....
ตำแหน่ง.....
วันเดือนปีที่รายงาน.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โกลด์โคสต์ จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด 1 (ระยอง)

เบอร์โทรศัพท์ 081-915-5261, 081-915-5263
แปลงที่ Q16

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	-	-	-	-
กุมภาพันธ์	-	-	-	-
มีนาคม	-	-	-	-
เมษายน	-	-	-	-
พฤษภาคม	-	-	-	-
มิถุนายน	-	-	-	-
กรกฎาคม	1.710	-	-	-
สิงหาคม	1.230	-	-	-
กันยายน	1.435	-	-	-
ตุลาคม	1.720	-	-	-
พฤศจิกายน	1.310	-	-	-
ธันวาคม	1.540	-	-	-
รวม (ตัน)	8.945	0	0	0

ลงชื่อ [Redacted] อนุมัติ
ตำแหน่ง [Redacted]
วันที่ เดือน ปี พ.ศ. 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ทรู คอร์ปอเรชั่น จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด 1 (ระยอง)

เบอร์โทรศัพท์ 036-012551 / 036-012552
แปลงที่ I-15 D

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.70			
สิงหาคม	0.56			
กันยายน	0.70			
ตุลาคม	0.56			
พฤศจิกายน	0.56			
ธันวาคม	0.56			
รวม (ตัน)	3.64			

ลงชื่อ [Redacted] อนุมัติ
ตำแหน่ง [Redacted]
วันที่ เดือน ปี พ.ศ. 2568

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ซีไทยไฟเบอร์ จำกัด สาขาระยอง
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 038-959450-30
แฟกซ์ E-19 / 8, 8-10

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.14	-	37.36	0.169
กุมภาพันธ์	2.06	-	57.12	0.370
มีนาคม	1.83	-	63.64	0.169
เมษายน	1.53	-	40.84	0.194
พฤษภาคม	2.25	-	38.09	0.305
มิถุนายน	1.75	-	35.59	0.136
กรกฎาคม	1.62	-	76.02	0.172
สิงหาคม	1.88	-	45.09	0.352
กันยายน	1.51	-	51.40	0.177
ตุลาคม	1.78	-	60.41	0.164
พฤศจิกายน	1.80	-	64.18	0.095
ธันวาคม	2.06	-	77.27	0.485
รวม (ตัน)	21.21	-	607.01	3.089

ลงชื่อ...
ตำแหน่ง...
วันเดือนปี...

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ซีไทยไฟเบอร์ จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-915210 ต่อ 115
แฟกซ์ PX-14

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน	3240			
กรกฎาคม	3020	35.01	-	-
สิงหาคม	3,240	33.53	-	-
กันยายน	3,340	34.06	-	-
ตุลาคม	3,330	36.43 + 0.393	0.707	-
พฤศจิกายน	3,240	36.44	-	-
ธันวาคม	3,240	37.43	-	-
รวม (ตัน)	16,510	214,213	0.707	-

ลงชื่อ...
ตำแหน่ง...
วันเดือนปี...

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Adient & Summit Corporation Ltd.

เบอร์โทรศัพท์ 098-3614059

นิคมอุตสาหกรรม Eastern Seaboard Industrial Estate

แปลงที่ 146, 147

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	26.730	55.40		6.750
สิงหาคม	26.730	57.65	0.426	7.007
กันยายน	24.750	43.43		9.598
ตุลาคม	26.730	64.20	0.28	7.007
พฤศจิกายน	25.740	42.91		6.318
ธันวาคม	18.180	15.31	0.560	1.287
รวม (ตัน)				



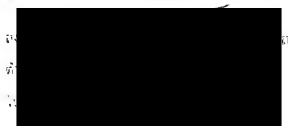
บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ซีอีเอส สมบูรณ์ โดเตท เซ็นด์ จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-954020-24
แปลงที่ EM-02, EM-03

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	0.190	0	0	3232.46
กุมภาพันธ์	0.190	0	0	3009.35
มีนาคม	0.152	0	0	3050.41
เมษายน	0.190	0	0	2655.18
พฤษภาคม	0.152	0	0	3324.02
มิถุนายน	0.152	0	0	2953.91
กรกฎาคม	0.190	0	0	3202.02
สิงหาคม	0.152	0	0	3080.13
กันยายน	0.190	0	0	3071.66
ตุลาคม	0.152	0	0	3418.92
พฤศจิกายน	0.152	0	0	3324.00
ธันวาคม	0.152	0	0	2834.00
รวม (ตัน)		0	0	37156.05



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท นาคากาวา ซิงเกีย (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-029742
แปลงที่ 1-57

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.68	10	0	-
กุมภาพันธ์	1.68	0	9	-
มีนาคม	1.82	0	0	-
เมษายน	1.68	11	5	-
พฤษภาคม	1.96	0	0	-
มิถุนายน	1.68	10	5	-
กรกฎาคม	1.96	7.8	1.01	-
สิงหาคม	1.82	0	1.5	-
กันยายน	1.82	10	0	-
ตุลาคม	1.82	10	0	-
พฤศจิกายน	1.82	10.85	0	-
ธันวาคม	7.1	8.27	0	-
รวม (ตัน)	26.84	77.92	21.51	-

ลงชื่อ..... ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน.....

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท บาร์เบ (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์0-3891-9189.....
แปลงที่1 - 59.....

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1,120	-	-	2,520
กุมภาพันธ์	1,120	-	-	-
มีนาคม	1,260	0.620	12.060	7,590
เมษายน	980	-	-	-
พฤษภาคม	1,260	-	-	2,520
มิถุนายน	1,120	0.812	13.270	7,218
กรกฎาคม	1,260	-	-	4,779
สิงหาคม	1,260	0.470	0.410	2,520
กันยายน	1,120	-	-	4,506
ตุลาคม	1,260	-	13.891	-
พฤศจิกายน	1,260	-	-	5,513
ธันวาคม	1,120	-	2.648	-
รวม (ตัน)	14,140	1.902	42.279	37,166

ลงชื่อ..... ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน..... 568..

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โคโงะ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 008-656580-1
ปลงที่ P.01

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.56	22.52	-	-
สิงหาคม	0.7	24.39	-	-
กันยายน	0.56	19.58	0.9	-
ตุลาคม	0.56	23.52	-	-
พฤศจิกายน	0.7	22.01	-	-
ธันวาคม	0.7	24.04	1.19	-
รวม (ตัน)	3.78	134.49	2.09	-

ลงชื่อ...
ตำแหน่ง...
วันเดือนปี...

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีเอ็มเอส อีเอส อีเอส จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 036656140
ปลงที่ T-55A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	3.480	23.036	14.800	-
สิงหาคม	3.780	23.484	0.00	-
กันยายน	3.500	22.250	5.120	-
ตุลาคม	3.780	22.668	5.690	-
พฤศจิกายน	3.640	29.459	5.830	-
ธันวาคม	3.360	23.442	5.990	-
รวม (ตัน)	24.240	144.539	40.430	-

ลงชื่อ...
ตำแหน่ง...
วันเดือนปี...

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะของ) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โอโรโร ออโตโมทีฟ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ๒03

เบอร์โทรศัพท์ 039-933600
แปลงที่ R04B

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.61 ตัน	10.63 ตัน	-	0.60 ตัน
กุมภาพันธ์	1.43 ตัน	20.82 ตัน	-	2.45 ตัน
มีนาคม	1.69 ตัน	16.20 ตัน	-	1.85 ตัน
เมษายน	1.53 ตัน	13.33 ตัน	-	3.31 ตัน
พฤษภาคม	1.43 ตัน	14.49 ตัน	-	1.89 ตัน
มิถุนายน	1.43 ตัน	12.91 ตัน	-	1.78 ตัน
กรกฎาคม	1.56 ตัน	15.10 ตัน	-	0.80 ตัน
สิงหาคม	1.56 ตัน	13.57 ตัน	0.19 ตัน	1.56 ตัน
กันยายน	1.69 ตัน	14.39 ตัน	-	1.8 ตัน
ตุลาคม	1.43 ตัน	13.19 ตัน	-	1.21 ตัน
พฤศจิกายน	1.95 ตัน	9.67 ตัน	-	1.36 ตัน
ธันวาคม	1.70 ตัน	7.49 ตัน	-	0.60 ตัน
รวม (ตัน)	19.09 ตัน	161.79 ตัน	0.19 ตัน	19.69 ตัน

ลงชื่อ _____
ตำแหน่ง _____
วัน เดือน ปี ที่รายงาน _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะของ) ระยะดำเนินการ พ.ศ. 2566

ชื่อโรงงาน บริษัท เอเวอร์ เดนิสสัน (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม : นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะของ)

เบอร์โทรศัพท์ 033-010-813 #217
แปลงที่ S-31H

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	59.85	0.00	58.26	223.82
กุมภาพันธ์	55.98	0.00	55.51	212.73
มีนาคม	58.79	0.00	75.49	176.18
เมษายน	56.92	0.00	51.14	168.30
พฤษภาคม	41.21	0.00	49.21	172.56
มิถุนายน	59.34	0.00	71.99	256.66
กรกฎาคม	50.96	0.00	72.45	245.05
สิงหาคม	55.06	0.00	73.60	250.51
กันยายน	47.07	0.00	53.30	203.28
ตุลาคม	54.60	0.00	44.40	212.18
พฤศจิกายน	60.81	0.00	69.14	226.37
ธันวาคม	44.40	0.00	60.67	203.41
รวม (ตัน)	644.99	0.00	735.16	2,551.05

ลงชื่อ _____ ผู้ให้ข้อมูล
ตำแหน่ง _____
วัน-เดือน-ปี ที่รายงาน _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยอง) ระยะดำเนินการ พ.ศ.2567

ชื่อโรงงาน บริษัท ฮาติค (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 0333 01295-97
แฟกซ์ M-27 , M-28

เดือน / พ.ศ. 2566	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.08	10.99	9.15	0
กุมภาพันธ์	1.08	16.45	12.37	0
มีนาคม	1.02	13.04	6.25	0
เมษายน	1.40	8.38	10.26	0
พฤษภาคม	1.06	10.31	8.35	0
มิถุนายน	1.68	20.80	4.34	0
กรกฎาคม	1.96	17.45	10.15	0
สิงหาคม	1.02	17.59	7.69	0
กันยายน	1.02	13.18	12.03	0
ตุลาคม	1.32	14.28	14.31	0
พฤศจิกายน	1.32	21.60	4.56	0
ธันวาคม	1.68	14.24	6.60	0
รวม (ตัน)	21.14	187.32	106.05	0

ลงชื่อ _____
ตำแหน่ง _____
E-mail _____
วันเดือนปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ฮาติค (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 038950352
แปลงที่ L 10

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	7,280.00	2,300.00	9,290.00	-
สิงหาคม	4,760.00	2,300.00	6,510.00	-
กันยายน	7,000.00	1,850.00	6,350.00	-
ตุลาคม	7,560.00	1,790.00	7,060.00	-
พฤศจิกายน	7,280.00	1,610.00	4,620.00	-
ธันวาคม	6,720.00	2,120.00	2,020.00	-
รวม (ตัน)	40,600.00	11,970.00	36,150.00	

ลงชื่อ _____
ตำแหน่ง _____
วันเดือนปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ขาเซล แอดวานซ์ โพลีโพลิเพนซ์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 038951000
แปลงที่ S.31A,S.318

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2,970	-	6.720	12.16
กุมภาพันธ์	2,970	-	0	11.75
มีนาคม	2,640	-	13.12	16.69
เมษายน	2,640	-	0	12.14
พฤษภาคม	2,970	-	9.07	16.58
มิถุนายน	2,640	-	0	17.72
กรกฎาคม	2,970	-	8.28	14.33
สิงหาคม	2,640	-	0	4.52
กันยายน	2,970	-	12.16	14.16
ตุลาคม	2,640	-	0	12.86
พฤศจิกายน	2,640	-	14.02	13
ธันวาคม	2,640	-	4.03	5.1
รวม (ตัน)	33.33	-	67.4	151

ลงชื่อ
ตำแหน่ง
วันที่

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Jekt Conting (Thailand) Co., Ltd.
นิคมอุตสาหกรรม อีสเทิร์น ซีบอร์ด

เบอร์โทรศัพท์ 036-955-537
แปลงที่ -

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1320	5.50	26.530	-
สิงหาคม	1650	2.194	9.430	-
กันยายน	1320	1.303	13.130	-
ตุลาคม	1320	1.035	19.702	-
พฤศจิกายน	1320	1.040	4.00	-
ธันวาคม	1320	1.241	0	-
รวม (ตัน)	8.250	12.346	72.742	0

ลงชื่อ
ตำแหน่ง
วันที่

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Thai Fine Sinter Co., LTD.นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ _____

แปลงที่ _____

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	4.29	13.31	22.16	-
สิงหาคม	4.62	11.26	15.54	-
กันยายน	3.96	10.86	21.09	-
ตุลาคม	4.62	15.05	14.46	-
พฤศจิกายน	4.29	12.33	15.64	-
ธันวาคม	3.96	8.45	13.11	-
รวม (ตัน)	25.74	71.26	102.00	-

ลงชื่อ _____
ตำแหน่ง _____
วัน-เดือน-ปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน เอส โอ อับบัส (ไทยแลนด์) จำกัดนิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยองเบอร์โทรศัพท์ 038-95597800 10แปลงที่ P2-5

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	10.50	10.5	2.5	-
กุมภาพันธ์	10.40	17.5	4	-
มีนาคม	10.90	18.27	-	-
เมษายน	10.08	10.3	3	-
พฤษภาคม	11.34	28	-	-
มิถุนายน	10.50	5	-	-
กรกฎาคม	11.34	8	3	-
สิงหาคม	11.32	6.82	3	-
กันยายน	10.50	7.12	-	-
ตุลาคม	10.35	10.01	-	-
พฤศจิกายน	10.92	9.11	2	-
ธันวาคม	10.08	9.15	-	-
รวม (ตัน)	128.23	138.78	17.5	-

ลงชื่อ _____
ตำแหน่ง _____
วัน-เดือน-ปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ทาคะ (ประเทศไทย) จำกัด

เบอร์โทรศัพท์ 038-950-738-9

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ PY05

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	3.080 ตัน (31/07/24)	7 ตัน		
สิงหาคม	3.780 ตัน (31/08/24)	18.74 ตัน		
กันยายน	2.800 ตัน (30/09/24)	9.92 ตัน		
ตุลาคม	3.220 ตัน (31/10/24)	10.2 ตัน		
พฤศจิกายน	3.080 ตัน (30/11/24)	7.845 ตัน		
ธันวาคม	2.660 ตัน (31/12/24)	3.75 ตัน		
รวม (ตัน)	18.62 ตัน	57.455 ตัน		

ลงชื่อ ... มูล
ตำแหน่ง ...
วัน-เดือน ...

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน G-TEKT Eastern Co., Ltd.

เบอร์โทรศัพท์ 038-954670

นิคมอุตสาหกรรม WHA

แปลงที่ E-11

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	10.5	6.0	0	-
กุมภาพันธ์	15.1	0	3.5	-
มีนาคม	15.5	3.0	0	-
เมษายน	14.3	0	3.3	-
พฤษภาคม	12.5	0	0	-
มิถุนายน	15.1	3.1	0	-
กรกฎาคม	19.7	0	3.2	-
สิงหาคม	14.1	0	0	-
กันยายน	14.5	4.2	0	-
ตุลาคม	15.1	0	3.5	-
พฤศจิกายน	13.3	0	0	-
ธันวาคม	12.3	3.4	0	-
รวม (ตัน)	168	13.7	13.9	

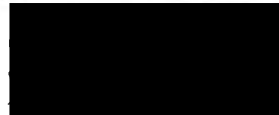
ลงชื่อ ... มูล
ตำแหน่ง ...
วัน-เดือน ...

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม ถึง ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท บริดจลันด์ เมทัลส์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-684700
แปลงที่ E-15A, E-16, E-17

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม (kg)	6200	939	71831	28467.6
กุมภาพันธ์ (kg)	6670	29691	106690	107058.9
มีนาคม (kg)	6200	8285	128762	75252.7
เมษายน (kg)	5640	9139	100676	90902.642
พฤษภาคม (kg)	6670	16024	87910	78619.628
มิถุนายน (kg)	6200	11667	74282	54271
กรกฎาคม (kg)	7280	10051	84721	177626
สิงหาคม (kg)	6670	19843	67456	64673
กันยายน (kg)	7280	14173	75657	41851
ตุลาคม (kg)	6670	54	98660	79522
พฤศจิกายน (kg)	8200	19156	91398	69553
ธันวาคม (kg)	8200	10883	45402	96548
รวม (ตัน)	77.88	151.88	1053.47	964.85



สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท บิ๊กซี จำกัด (มหาชน) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 093-212000
แปลงที่ L01, L02

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.68	62.55	-	0.62
กุมภาพันธ์	2.31	53.66	-	-
มีนาคม	2.58	48.16	-	-
เมษายน	1.86	44.98	-	-
พฤษภาคม	1.85	63.84	-	-
มิถุนายน	3.88	76.49	-	0.41
กรกฎาคม	2.91	81.80	-	-
สิงหาคม	0	97.53	-	-
กันยายน	5.42	67.77	0.78	0.93
ตุลาคม	0	71.87	-	-
พฤศจิกายน	4.17	67.06	-	-
ธันวาคม	0	0	-	0.50
รวม (ตัน)	23.31	721.7	0.78	1.56

ลงนาม
ตำแหน่ง
วันที่ 10/12/2567

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
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โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท แปซิฟิคเคมีคอลส์ จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 033-010771
แปลงที่ I-170

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.65	-	0.42	-
กุมภาพันธ์	1.32	-	0.37	-
มีนาคม	1.72	-	0.50	-
เมษายน	1.32	-	0.23	-
พฤษภาคม	1.32	-	0.5604	-
มิถุนายน	1.32	-	0.410	-
กรกฎาคม	1.65	-	0.75	-
สิงหาคม	1.32	-	0.53	-
กันยายน	1.65	-	0.52	-
ตุลาคม	1.32	-	0.64	-
พฤศจิกายน	1.32	-	0.74	-
ธันวาคม	1.32	-	0.82	-
รวม (ตัน)	16.83	-	7.0464	-

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสีย และมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน: บริษัท ทานาคะ อาอิ อินดัสทรีส์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม: อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์: 033-109013-19
แปลงที่: I-38

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ ใช้ใหม่ (Reuse/ Recycle)
มกราคม	1.82			
กุมภาพันธ์	1.68			
มีนาคม	1.82	2.55	0.30	
เมษายน	1.68			
พฤษภาคม	1.96	1.29		
มิถุนายน	1.68			
กรกฎาคม	1.96			
สิงหาคม	1.82			
กันยายน	1.82	0.48		
ตุลาคม	1.82		0.20	
พฤศจิกายน	1.82			
ธันวาคม	1.68			
รวม(ตัน)	21.560	4.32	0.500	

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

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บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ยามาโมริ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-012-103
แปลงที่ 156/1

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.26	98.203		
สิงหาคม	1.26	111.516		
กันยายน	1.12	128.006		
ตุลาคม	1.26	124.679		
พฤศจิกายน	1.26	182.301		
ธันวาคม	1.26	126.971		
รวม (ตัน)	7.28	789.676		

ผู้ให้ข้อมูล
[Redacted Signature]

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บ. โตโยต้า ในเครือ นิเวศน์ ชวเตม (ปท) จำกัด.
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 033-955618 ต่อ 1130
แปลงที่ 141

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	10.11	11.59	24.91	11.09
สิงหาคม	10.66	9.40	21.54	3.68
กันยายน	10.89	11.03	29.50	6.95
ตุลาคม	10.08	12.07	34.42	9.41
พฤศจิกายน	10.26	12.40	24.39	8.10
ธันวาคม	8.75	23.73	22.58	8.65
รวม (ตัน)	60.75 ton	80.21 ton	157.14 ton	51.88 ton



ผู้ให้ข้อมูล
[Redacted Signature]

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ.2567

ชื่อโรงงาน บริษัท โคเบลโก้ คอนสตรัคชั่น แมชีนเนอรี่ เซาท์อีส เอเชีย จำกัด (สำนักงานใหญ่)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์: 038-954790-4 #653
แปลงที่: E-21

กากของเสียอุตสาหกรรม				
เดือน	ขยะมูลฝอย	ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	0.56	15.27	7.81	0.89
กุมภาพันธ์	0.56	14.99	12.234	0.00
มีนาคม	0.70	22.82	81.45	0.00
เมษายน	0.56	9.97	6.86	0.00
พฤษภาคม	0.70	19.23	7.05	0.94
มิถุนายน	0.56	10.09	15.664	0.00
กรกฎาคม	0.56	38.66	13.13	0.45
สิงหาคม	0.50	27.37	9.51	0.00
กันยายน	0.56	28.27	76.96	2.13
ตุลาคม	0.56	0.00	26.59	0.00
พฤศจิกายน	0.70	12.67	6.92	2.06
ธันวาคม	0.70	22.55	12.91	0.36
นน.รวม (ตัน)	7.22	221.86	277.09	6.83

ลงชื่อ _____ ให้ข้อมูล
ตำแหน่ง _____

วัน-เดือน-ปี ที่รายงาน 10 Jan 2025

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท นิลามุข จำกัด (มหาชน) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยะอง)

เบอร์โทรศัพท์ 023-012031-2
แปลงที่ 11.63

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กุมภาพันธ์	0.56	0.48	-	-
มีนาคม	0.70	0.30	-	0.60
กันยายน	0.56	1.45	1.27	-
ตุลาคม	0.56	0.30	-	-
พฤศจิกายน	0.30	1.02	6.22	-
ธันวาคม	0.56	0.93	-	0.47
รวม (ตัน)	3.64	5.68	4.49	1.1

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ยูวอน เอชซีเอ็กซ์ จำกัด เบอร์โทรศัพท์ 038-955945-7

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยะอง) แปลงที่ M-17

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	3.76	31.673	2.270	-
กุมภาพันธ์	4.23	44.197	2.400	-
มีนาคม	3.29	48.515	0.800	-
เมษายน	3.76	43.715	1.720	-
พฤษภาคม	4.23	35.688	1.120	-
มิถุนายน	3.76	4.539	1.350	-
กรกฎาคม	4.23	11.101	1.560	-
สิงหาคม	4.23	15.64	1.350	-
กันยายน	4.23	22.932	1.290	-
ตุลาคม	4.23	-	1.980	-
พฤศจิกายน	3.76	28.315	1.090	-
ธันวาคม	4.23	-	1.000	-
รวม (ตัน)	47.94	286.315	17.93	0

ลง
คำ
วัน

สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Li tai Alloy Co., Ltd
นิคมอุตสาหกรรม Eastern Seaboard Rayong

เบอร์โทรศัพท์ 033-077-201
แปลงที่ I-63, I-54

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม		4,960	4,450	
สิงหาคม		4,960	6,540	
กันยายน		1,260	-	
ตุลาคม		4,260	5,000	
พฤศจิกายน		1,120	-	
ธันวาคม		1,260	1,200	
รวม (ตัน)		7,420		

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือน มกราคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท มิกซ์วอเตอร์ (ไทยแลนด์) จำกัด

เบอร์โทรศัพท์ 0-3801-3601

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ S-02

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	5,280	18,130	14,430	2,841
กุมภาพันธ์	5,280	10,740	0	5,573
มีนาคม	5,940	25,630	7,240	4,350
เมษายน	5,280	10,960	6,240	3,804
พฤษภาคม	5,940	21,930	13,190	5,648
มิถุนายน	5,280	20,450	6,240	5,564
กรกฎาคม	5,940	18,680	5,500	6,687
สิงหาคม	5,280	20,620	10,360	4,754
กันยายน	5,280	22,200	6,510	4,819
ตุลาคม	5,280	19,940	6,830	4,873
พฤศจิกายน	5,280	32,490	3,780	4,543
ธันวาคม	5,280	19,950	7,010	4,451

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี ที่รายงาน

ผู้ให้ข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและขยะมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ไทโต เคมีภัณฑ์ (ประเทศไทย) จำกัด

เบอร์โทรศัพท์ 038-034426

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ S-26A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	294 ก.ก.	โลหะ: 0.45 ตัน	metal grinding 0.4 ตัน	
กุมภาพันธ์	450 ก.ก.	พริกเหลือง 0.91 ตัน	0	
มีนาคม	494 ก.ก.			
เมษายน	494 ก.ก.			
พฤษภาคม	532 ก.ก.			
มิถุนายน	456 ก.ก.			
กรกฎาคม	532 ก.ก.			
สิงหาคม	494 ก.ก.			
กันยายน	494 ก.ก.			
ตุลาคม	494 ก.ก.			
พฤศจิกายน	494 ก.ก.			
ธันวาคม	494 ก.ก.			
รวม (ตัน)	5322 ก.ก.			

ลงชื่อ

ตำแหน่ง

วัน-เดือน-ปี

ผู้ให้ข้อมูล

S.

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน _____
นิคมอุตสาหกรรม _____

เบอร์โทรศัพท์ _____
แฟกซ์ _____

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม		1,120	150	
สิงหาคม		1,120	170	
กันยายน		1,120	120	
ตุลาคม		1,120	150	
พฤศจิกายน		1,120	189	
ธันวาคม		1,120	175	
รวม (ตัน)				

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง
วัน-เดือน-ปี ที่รายงาน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ไทยเบฟเวอเรจ จำกัด (มหาชน)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด 3 ระยอง

เบอร์โทรศัพท์ 041 014 4905
แฟกซ์ 041 014 4905

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	0.70			
สิงหาคม	0.56			
กันยายน	0.56			
ตุลาคม	0.70			
พฤศจิกายน	0.56			
ธันวาคม	0.56	0.563	0.125	
รวม (ตัน)				

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท สกน หัท (โกลเด้น) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ ๐๖๖-๙๒๓ ๕๖๖
แฟกซ์ ๐๖๖-๙๒๓ ๕๖๖

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.64			12.46
กุมภาพันธ์	2.97			13.11
มีนาคม	2.64			13.04
เมษายน	2.64			8.14
พฤษภาคม	2.77			16.64
มิถุนายน	2.64			13.59
กรกฎาคม	2.97			15.49
สิงหาคม	2.97			13.74
กันยายน	2.97			13.62
ตุลาคม	2.97			15.50
พฤศจิกายน	2.64			11.24
ธันวาคม	2.64			7.32
รวม (ตัน)	33.66			159.69

ลงชื่อ
ตำแหน่ง
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ไอ-วาท บริษัท อินโด (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-017850
แฟกซ์ K.01

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.120	2.316	0.178	-
กุมภาพันธ์	1.120	4.324	0.505	-
มีนาคม	2.520	3.07	0.391	-
เมษายน	2.520	2.477	0.400	-
พฤษภาคม	2.520	2.759	0.091	-
มิถุนายน	5.400	1.309	0.115	-
กรกฎาคม	1.120	1.453	0.315	-
สิงหาคม	1.400	1.398	0.105	-
กันยายน	1.120	3.258	0.540	-
ตุลาคม	0.540	3.668	0.241	-
พฤศจิกายน	1.400	3.327	0.240	-
ธันวาคม		2.584	0.115	-
รวม (ตัน)	21.04	32.903	3.493	0

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด(ระยอง) ระยะดำเนินการระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน เอ็นพีเอ็น แมนูเฟคเจอร์ (ประเทศไทย)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด(ระยอง)

เบอร์โทรศัพท์ 038-955-185-8
แปลงที่

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป(Non-Hazardous waste)	ของเสียอันตราย(Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่(Reuse/Recycle)
มกราคม	1.82	32.24	60.92	
กุมภาพันธ์	1.68	29.86	59.86	
มีนาคม	1.82	11.19	64.96	
เมษายน	1.4	10.38	72.66	
พฤษภาคม	1.96	11.41	71.45	
มิถุนายน	1.82	9	49	
กรกฎาคม	1.96	10.97	45.37	
สิงหาคม	1.82	27.77	50.86	
กันยายน	1.82	8.77	71.79	
ตุลาคม	1.82	10.34	53.71	
พฤศจิกายน	1.82	11.68	62.67	
ธันวาคม	1.68	9.06	61.92	
รวม(คั่น)	21.42	182.67	725.17	

ลงชื่อ
ตำแหน่ง.....
วัน-เดือน-

ส่งถึงส่งด้วย 1

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท เอ็มเออี ไฮเทค อินดัสเทรีย จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-012476
แฟกซ์ PX.01

เดือน	ขยะมูลฝอย (คั่น)	กากของเสียอุตสาหกรรม (คั่น)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.70	2.05	23.77	
สิงหาคม	0.66	1.25	23.45	
กันยายน	0.66	2.72	12.65	
ตุลาคม	0.40	1.40	25.36	
พฤศจิกายน	0.66	2.80	14.65	
ธันวาคม	0.66	3.59	23.29	
รวม (คั่น)	3.64	13.81	123.17	

ลงชื่อ ผู้ให้ข้อมูล
ตำแหน่ง.....
วัน-เดือน-ปี ที่รายงาน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท เพลเดอร์ จำกัด (มหาชน)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 033-012446
แปลงที่ PL-12

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.32	-	-	
กุมภาพันธ์	1.65	-	8.85	
มีนาคม	1.32	23.49	6.44	
เมษายน	1.32	0.40	5.64	
พฤษภาคม	1.65	1.23	-	
มิถุนายน	1.32	-	-	
กรกฎาคม	1.32	7.96	11.15	
สิงหาคม	1.65	-	9.85	
กันยายน	1.32	1.42	-	
ตุลาคม	1.65	1.23	9.59	
พฤศจิกายน	1.32	2.45	9.54	
ธันวาคม	1.32	1.10	16.55	
รวม (ตัน)	17.16	39.23	80.06	

ลงชื่อ _____
ตำแหน่ง _____
วัน-เดือน-ปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ.2567

ชื่อโรงงาน บริษัท นีโอสเฟส (ไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์น ซีบอร์ด

เบอร์โทรศัพท์ (038) 955-100
แปลงที่ S 40

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	-	273.629	2.213	-
กุมภาพันธ์	-	252.091	1.674	-
มีนาคม	-	279.1	3.069	-
เมษายน	-	195.162	2.237	-
พฤษภาคม	-	278.559	2.574	-
มิถุนายน	-	245.858	2.501	-
กรกฎาคม	-	318.888	3.28	-
สิงหาคม	-	345.128	3.225	-
กันยายน	-	276.719	4.165	-
ตุลาคม	-	253.76	0.828	-
พฤศจิกายน	-	280.981	3.479	-
ธันวาคม	-	227.516	2.342	-
รวม (ตัน)	0	3229.391	31.566	0

ให้ข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

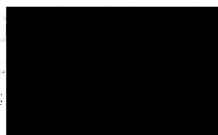
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน พี.ที.พี. (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์น ซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 0 33-6 84 730 # 275
แฟกซ์ 99 11 / 1

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	2.94	2.25	-	-
สิงหาคม	2.94	2.49	-	-
กันยายน	2.94	2.68	-	-
ตุลาคม	2.94	2.91	-	-
พฤศจิกายน	3.220	3.15	-	-
ธันวาคม	2.66	4.74	-	-
รวม (ตัน)	3.08	1.80	-	-
สิงหาคม	2.94	2.97	-	-
กันยายน	2.94	4.40	-	-
ตุลาคม	3.08	3.10	-	-
พฤศจิกายน	2.94	3.00	-	-
ธันวาคม	2.66	3.26	-	-
รวม (ตัน)	35.28	34.76		

ลงชื่อ
ตำแหน่ง
วัน เดือน ปี



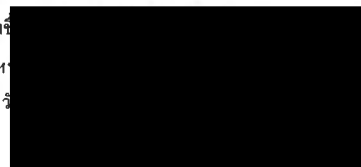
บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัทซูมิโกะ อีสเทิร์น รีเนเบอร์ (ประเทศไทย) จำกัด แปลงที่ P-34-36, P-38 นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด เบอร์โทรศัพท์ 038-927500 ต่อ 124

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous Waste)	ของเสียอันตราย (Hazardous Waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	8.220	N/A	57.768	194.673
สิงหาคม	7.500		55.770	186.721
กันยายน	7.110		50.006	180.625
ตุลาคม	7.250		59.687	192.751
พฤศจิกายน	6.830		53.260	190.352
ธันวาคม	6.820		55.154	182.619
รวม (ตัน)	43.73		331.645	1,127.741

ลงชื่อ
ตำแหน่ง
วัน เดือน ปี



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

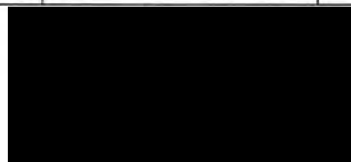
ชื่อโรงงาน พีดี ที อีเล็คทริกอล จำกัด

เบอร์โทรศัพท์ 0922601621

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ PY. 058

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	19.60 Kg	-	-	-
สิงหาคม	16.80 Kg	-	-	-
กันยายน	13.90 Kg	-	-	-
ตุลาคม	16.20 Kg	-	-	-
พฤศจิกายน	13.80 Kg	-	-	-
ธันวาคม	16.80 Kg	-	-	-
รวม (ตัน)				



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ พ.ศ. 2567

ชื่อบริษัทไชเคน (ประเทศไทย) จำกัด

เบอร์ติดต่อ 038-656350-1

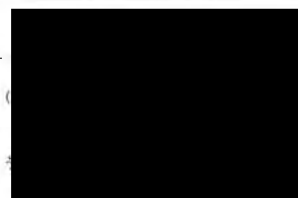
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ I-58

เดือน	ขยะมูลฝอย(ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	1.260	1.260	-	6.350
สิงหาคม	1.260	1.260	2.850	1.880
กันยายน	1.260	1.260	-	6.540
ตุลาคม	1.260	10.810	3.070	13.190
พฤศจิกายน	1.260	1.260	15.390	4.450
ธันวาคม	1.120	8.105	2.920	2.530
รวม (ตัน)	7.420	23.955	24.230	34.940



ลงชื่อ.

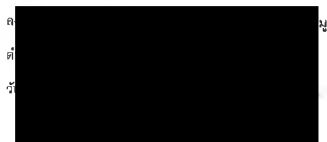


บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท เอ็นทีเอ็น แมงแกคเจริง (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ (038)-955-935 ถึง 8
แปลงที่ S-38, S-38/1

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.82	2.32	0.00	0.00
กุมภาพันธ์	1.68	2.81	3.76	0.00
มีนาคม	1.82	2.19	0.00	0.13
เมษายน	1.40	3.51	9.61	0.00
พฤษภาคม	1.96	7.17	0.00	0.00
มิถุนายน	1.68	6.93	1.65	0.00
กรกฎาคม	1.96	2.96	0.00	0.00
สิงหาคม	1.82	2.01	12.05	0.00
กันยายน	1.82	2.82	0.00	0.00
ตุลาคม	1.82	2.47	2.83	0.00
พฤศจิกายน	1.82	3.54	0.00	0.00
ธันวาคม	1.68	4.05	9.45	0.00
รวม (ตัน)	21.28	42.79	39.35	0.13



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีซีเอส ฟาร์อีส (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-954961
แปลงที่ P39, 40, 41

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	2.82	418.44	13.110	
สิงหาคม	2.82	405.39		
กันยายน	1.38	362.71		
ตุลาคม	2.38	324.05	13.660	
พฤศจิกายน	1.82	318.44	13.120	
ธันวาคม	1.68	216.91	13.195	
รวม (ตัน)	14.00	2045.94	53.085	



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม - ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ซีวู โซลูชันส์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ระยอง

เบอร์โทรศัพท์ 03 301 2541
แฟกซ์ T01

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	8.910	4.740	-	44.375
สิงหาคม	8.910	4.530	1.630	44.120
กันยายน	8.250	2.890	-	51.090
ตุลาคม	8.910	4.305	2.100	43.110
พฤศจิกายน	8.250	4.740	1.100	58.624
ธันวาคม	7.920	3.550	-	37.181
รวม (ตัน)	51.150	24.76	4.83	278.50

ลงชื่อ
ตำแหน่ง
วัน

สิ่งที่ส่งมาด้วย ๔

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน ZF CV Solutions (Thailand) Limited
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 063-2024372
แฟกซ์ I 11

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	๐.๖๖	๔.๖	๐.๐๐๓	-
กุมภาพันธ์	๐.๖๔	4.๖	๐.๐1	-
มีนาคม	๐.๑1	5.0	๐.๐๐5	-
เมษายน	0.๘4	6.0	๐.๐๐6	-
พฤษภาคม	๐.๑4	6.๔	๐.๐1	-
มิถุนายน	0.๑0	6.๖	๐.๐1	-
กรกฎาคม	๐.๑0	6.๔	๐.๐๐8	-
สิงหาคม	๐.๑0	6.8	๐.๐2	-
กันยายน	๐.8๐	5.8	๐.๐1	-
ตุลาคม	0.๘4	๖.1	๐.๐1	-
พฤศจิกายน	๐.๑0	๖.๑	๐.๐3	-
ธันวาคม	1.12	๑.8	๐.๐2	-
รวม (ตัน)	10.55	๖4.๑	๐.141	-

ลงชื่อ
ตำแหน่ง
วัน

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะย) ระยะดำเนินการ พ.ศ. 2567

ชื่อโรงงาน บริษัท อานา ๑๖ จำกัด (มหาชน) จำกัด
ที่ตั้งโรงงาน อ.เมือง จ.บุรีรัมย์

เบอร์โทรศัพท์ 033-883-800
แฟกซ์ 033-883-800

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม				
กุมภาพันธ์				
มีนาคม				
เมษายน				
พฤษภาคม				
มิถุนายน				
กรกฎาคม	8.38		5.21	3.81
สิงหาคม	4.41		5.69	7.19
กันยายน	8.58		5.77	6.78
ตุลาคม	8.58		4.35	5.52
พฤศจิกายน	8.58		1.56	8.99
ธันวาคม	8.93		3.82	5.01
รวม (ตัน)	52.16		27.80	34.70

ลงชื่อ
ตำแหน่ง
วันเดือนปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ
โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะย) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อานา ๑๖ จำกัด (มหาชน) จำกัด
ที่ตั้งโรงงาน อ.เมือง จ.บุรีรัมย์

เบอร์โทรศัพท์ 033-883-800
แฟกซ์ 033-883-800

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	26.01	32.20	5.96	
กุมภาพันธ์	25.93	18.79	14.65	
มีนาคม	23.13	29.47	21.39	
เมษายน	21.10	22.45	11.93	
พฤษภาคม	23.37	53.25	18.63	
มิถุนายน	24.49	30.07	17.50	
กรกฎาคม	33.89	26.05	18.62	
สิงหาคม	33.34	21.73	7.94	
กันยายน	34.27	23.78	18.15	
ตุลาคม	26.87	26.06	15.78	
พฤศจิกายน	23.75	23.94	18.45	
ธันวาคม	15.67	21.44	14.61	
รวม (ตัน)	315.05	321.72		

ผู้ลงนาม

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีอีซี จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ๑๖๐๑

เบอร์โทรศัพท์ 081 4366509
 แปลงที่ B22

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	-	-	-	0.01
สิงหาคม	-	-	-	0.01
กันยายน	-	-	-	0.01
ตุลาคม	-	-	-	0.02
พฤศจิกายน	-	-	-	0.01
ธันวาคม	-	-	-	-
รวม (ตัน)				0.06



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีอีซี จำกัด
 นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด ๑๖๐๑

เบอร์โทรศัพท์ 038-094045-8
 แปลงที่ 607/A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.2	10.29		2.2
กุมภาพันธ์	1.2	14.52		8.1
มีนาคม	1.2	15.14		2.3
เมษายน	1.1	14.48		1.7
พฤษภาคม	1.4	83.67		1.8
มิถุนายน	1.1	20.62	1.83	2.8
กรกฎาคม	1.2	29.1	-	3.9
สิงหาคม	1.2	15.2	-	2.5
กันยายน	1.2	20.9	-	4.8
ตุลาคม	1.2	17.5	-	9.5
พฤศจิกายน	1.2	17.8	-	3.4
ธันวาคม	1.1	0.9	-	0
รวม (ตัน)	14.3	205.5	-	30.9



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท โอเอซีซี จำกัด (มหาชน) จำกัด

เบอร์โทรศัพท์ 038-070993, 038-7470930

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	19.61	19.61	-	-
สิงหาคม	27.93	27.93	-	-
กันยายน	41.921	41.921	-	-
ตุลาคม	7.92	7.92	-	-
พฤศจิกายน	13.47	13.47	-	-
ธันวาคม	17.96	17.96	-	-
รวม (ตัน)	109.71	109.71	-	-



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท อีทีเค อีเอ็มเอส เอชซี โปรดักชั่นส์ จำกัด

เบอร์โทรศัพท์ 038-955-839-41

นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ M07, M08

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.82	-	-	0.756
กุมภาพันธ์	1.82	-	-	1.42
มีนาคม	1.82	-	5.565	0.867
เมษายน	1.4	-	-	0.735
พฤษภาคม	1.96	-	-	0.581
มิถุนายน	1.68	-	-	0.367
กรกฎาคม	1.82	-	-	1.022
สิงหาคม	1.68	-	-	1.306
กันยายน	1.4	-	4.3	0.213
ตุลาคม	1.82	-	-	0.2
พฤศจิกายน	1.82	-	-	0.21
ธันวาคม	1.96	-	-	0.204
รวม (ตัน)	21	0	9.865	7.881



สิ่งส่งมอบ

ค่า

วันที่ 14/01/2018

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน : บริษัท เอสเซชพีที (ประเทศไทย) จำกัด

เบอร์โทรศัพท์ : 038-673700

นิคมอุตสาหกรรม : อีสเทิร์นซีบอร์ด (ระยอง)

แปลงที่ : S-29F, S-30G-A

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste) หน่วย : ตัน	ของเสียอันตราย (Hazardous waste) หน่วย : ตัน	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle) หน่วย : ตัน
กรกฎาคม	2.97	16.85	4.45	69.41
สิงหาคม	2.97	7.54	2.97	74.70
กันยายน	2.64	18.83	14.39	73.91
ตุลาคม	2.97	7.19	6.47	79.13
พฤศจิกายน	2.97	41.46	19.46	53.89
ธันวาคม	2.64	27.18	21.36	53.98
รวม (ตัน)	17.16	119.05	69.10	405.02

ลงชื่อ ผู้ให้ข้อมูล



สิ่งที่ส่งมาด้วย 4

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน

เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน Northern electric power technology (thailand) Co., Ltd. (Head Office)

เบอร์โทรศัพท์ 061-14194202

นิคมอุตสาหกรรม Eastern Seaboard Industrial Estate (Rayong)-ESI E

แปลงที่ 2001102

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	0.56	-	-	-
สิงหาคม	0.40	-	-	-
กันยายน	0.56	0.32	-	-
ตุลาคม	0.40	-	-	-
พฤศจิกายน	0.56	0.555	-	-
ธันวาคม	0.40	-	-	-
รวม (ตัน)	3.48	0.875	-	-



บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะของ) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บ. สยาม โทเรลลิก จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 093-040522
แฟกซ์ 1-293, 1-29

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.120		-	-
กุมภาพันธ์	1.120		-	73.23
มีนาคม	1.260		0.18	47.18
เมษายน	1.260		-	67.17
พฤษภาคม	1.260		-	43.88
มิถุนายน	1.120		0.694	25.044
กรกฎาคม	1.260		-	74.69
สิงหาคม	1.260		-	58.05
กันยายน	1.120		0.808	35.73
ตุลาคม	1.260		-	63.70
พฤศจิกายน	1.260		-	94.78
ธันวาคม	1.120		0.766	78.78
รวม (ตัน)				

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะของ) ระยะดำเนินการ ระหว่างเดือนมกราคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท คลัตเตอร์ เอนเทอร์ไพรส์ (ไทยแลนด์) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ 098-4947624
แฟกซ์ 1-19

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	2.34	2.42	0	5.35
กุมภาพันธ์	3.33	33.34	0.879	5.917
มีนาคม	3.65	4.38	24.185	11.11
เมษายน	1.83	2.62	0	5.205
พฤษภาคม	4.03	542.48	0.0	22.187
มิถุนายน	3.30	674.50	15.35	19.501
กรกฎาคม	3.06	355.31	1.729	13.124
สิงหาคม	4.76	728.05	21.78	16.577
กันยายน	2.93	523.47	4.46	21.515
ตุลาคม	2.97	407.26	0	20.20
พฤศจิกายน	3.29	258.74	7.47	16.59
ธันวาคม	2.27	278.34	17.85	19.73
รวม (ตัน)	37.76	3,810.91	98.763	177.406

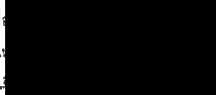
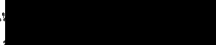
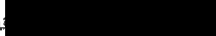
บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนมกราคม-มิถุนายน พ.ศ. 2567

ชื่อโรงงาน บริษัท ไทย อีโคโนมิก โกลบอล โซลูชั่น จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 039-010341-25
แปลงที่ P-05

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	1.65	24.27	14.19	
กุมภาพันธ์	1.32	22.26	5.50	
มีนาคม	1.32	13.29	5.72	
เมษายน	1.65	10.66	2.66	
พฤษภาคม	1.32	22.56	1.99	
มิถุนายน	1.65	13.55	2.26	
รวม (ตัน)	8.91	102.19	35.32	

ลงชื่อ  ผู้ข้อมูล
ตำแหน่ง 
วันที่  22.6

3

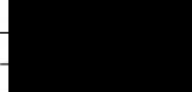
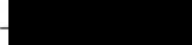
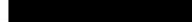
บันทึกปริมาณการคัดแยกกากของเสียและขยะมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือน มกราคม - ธันวาคม พ.ศ.2567

ชื่อโรงงาน บริษัท นิปอลเพนต์ (ประเทศไทย) จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-955383-4
แปลงที่

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ / ใช้ใหม่ (Reuse/Recycle)
มกราคม	0.24	0	0.00	0
กุมภาพันธ์	0.12	0	0.00	0
มีนาคม	0.24	0	5.54	0
เมษายน	0.18	0	4.49	0
พฤษภาคม	0.24	0	0.00	0
มิถุนายน	0.15	0	3.44	0
กรกฎาคม	0.19	0	2.95	0
สิงหาคม	0.15	0	3.40	0
กันยายน	0.13	0	2.77	0
ตุลาคม	0.14	0	3.31	0
พฤศจิกายน	0.15	0	2.24	0
ธันวาคม	0.16	0	3.33	0
รวม (ตัน)	2.09	0	31.46	0

ลงชื่อ  ผู้ให้ข้อมูล
ตำแหน่ง 
วันที่รายงาน 

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน บริษัท ๒๕๕๒ จำกัด
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด

เบอร์โทรศัพท์ ๐๙๒-๓๘๒๔๗๑๔
แปลงที่ ๕.๑๔/๑

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
กรกฎาคม	๕๖๐ ก.ก	๕๖๐ ก.ก	-	-
สิงหาคม	๗๐๐ ก.ก	๗๐๐ ก.ก	-	-
กันยายน	๕๖๐ ก.ก	๕๖๐ ก.ก	-	-
ตุลาคม	๕๖๐ ก.ก	๕๖๐ ก.ก	-	-
พฤศจิกายน	๗๐๐ ก.ก	๗๐๐ ก.ก	-	-
ธันวาคม	๕๖๐ ก.ก	๕๖๐ ก.ก	-	-
รวม (ตัน)				



ข้อมูล

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
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ชื่อโรงงาน ...บริษัท บีเอสเอสเอฟ เคมแคท (ประเทศไทย) จำกัด....
นิคมอุตสาหกรรม ...อีสเทิร์นซีบอร์ด (ระยะอง)....

เบอร์โทรศัพท์.....033-684888.....
แปลงที่ ...Q08/1, Q09, Q12/1.....

เดือน	ขยะมูลฝอย	กากของเสียอุตสาหกรรม		
		ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)	นำกลับมาใช้ซ้ำ/ใช้ใหม่ (Reuse/Recycle)
มกราคม	-	-	-	-
กุมภาพันธ์	-	-	-	-
มีนาคม	-	-	-	-
เมษายน	-	-	-	-
พฤษภาคม	-	-	-	-
มิถุนายน	-	-	-	-
กรกฎาคม	3.78	4.379	5.0788	-
สิงหาคม	3.78	3.662	2.59	-
กันยายน	3.50	0.75	11.6128	-
ตุลาคม	3.64	1.6	2.341	-
พฤศจิกายน	3.64	1.4	1.71	-
ธันวาคม	3.36	1.8	8.152	-
รวม (ตัน)	21.70	13.59	31.48	0

ลงชื่อ
ตำแหน่ง
E-mail...
วัน-เดือน-ปี

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
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โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน เซอีทอ ไทย จำกัด (โรงงาน 1)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-955481-3
แฟกซ์ M-25

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)										รวม (ตัน)
		เศษวัสดุเหลือใช้ ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)				ของเสียทั่วไป	ของเสียอันตราย	ของเสียอันตราย	ของเสียอันตราย		
กรกฎาคม	3.920	28.589	11.44	1.119	0.050	0.035	0.025	0.324	0.035	0.025	0.035	
สิงหาคม	3.640	23.141	26.53	0.844	0.010	0.010	0.010	0.342	0.010	0.010	0.010	
กันยายน	3.640	30.362	-	-	-	-	-	-	-	-	-	
ตุลาคม	3.640	26.862	12.12	0.491	-	0.010	0.015	-	0.015	-	0.010	
พฤศจิกายน	3.640	32.102	12.13	1.244	-	0.020	0.030	-	0.030	-	0.030	
ธันวาคม	3.360	33.935	-	0.528	-	0.040	0.030	-	0.030	-	0.030	
รวม (ตัน)	21.84	184.931	4.382	0.060	0.115	0.110	0.666	0.120	0.035	0.115		

ลงชื่อ _____
ตำแหน่ง _____
วันเดือนปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน เซอีทอ ไทย จำกัด (โรงงาน 2)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 038-959362-4
แฟกซ์ M-29

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)										รวม (ตัน)
		เศษวัสดุเหลือใช้ ของเสียทั่วไป (Non-Hazardous waste)	ของเสียอันตราย (Hazardous waste)				ของเสียทั่วไป	ของเสียอันตราย	ของเสียอันตราย	ของเสียอันตราย	ของเสียอันตราย	
กรกฎาคม	3.920	31.165	33.440	2.146	0.030	0.003	0.004	0.324	0.010	0.010	0.010	0.004
สิงหาคม	3.640	29.344	51.300	0.816	0.020	0.010	0.010	0.180	0.010	0.010	0.010	0.010
กันยายน	3.640	28.296	31.840	2.526	0.010	0.020	0.020	0.546	0.020	0.020	0.020	0.020
ตุลาคม	3.360	22.660	52.980	0.244	0.015	0.010	0.015	0.486	0.020	0.010	0.010	0.015
พฤศจิกายน	3.640	24.669	51.230	1.299	0.015	0.015	0.015	0.414	0.015	0.015	0.015	0.015
ธันวาคม	3.360	30.004	49.460	0.839	0.030	0.030	0.020	0.316	0.020	0.020	0.020	0.020
รวม (ตัน)	21.56	141.141	400.58	7.953	0.080	0.083	0.084	2.304	0.090	0.085	0.084	0.084

ลงชื่อ _____
ตำแหน่ง _____
วันเดือนปี _____

บันทึกปริมาณการคัดแยกกากของเสียและมูลฝอยทั่วไปของโรงงาน
เพื่อใช้ประกอบการจัดทำรายงานผลการปฏิบัติตามมาตรการฯ

โครงการนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยะอง) ระยะดำเนินการ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567

ชื่อโรงงาน เซมิคอนดักเตอร์ จำกัด (โรงงาน 3)
นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง)

เบอร์โทรศัพท์ 088-950290-3
แปลงที่ L-14

เดือน	ขยะมูลฝอย (ตัน)	กากของเสียอุตสาหกรรม (ตัน)									ทั่วไปรวม
		กากทั่วไป (Non-Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	กากอันตราย (Hazardous waste)	
กรกฎาคม	3.920	56.033	28.54	1.523	0.020	0.012	0.012	0.150	0.012	0.012	0.012
สิงหาคม	3.640	56.244	24.13	0.460	0.010	0.010	0.010	0.252	0.010	0.010	0.010
กันยายน	3.640	56.820	22.13	2.264	0.100	0.020	0.020	0.112	0.020	0.010	0.020
ตุลาคม	3.640	58.159	22.59	0.744	0.040	0.010	0.020	0.360	0.010	0.010	0.010
พฤศจิกายน	3.640	59.454	26.15	1.204	0.020	0.020	0.020	1.116	0.020	0.020	0.020
ธันวาคม	3.360	58.963	24.00	0.698	0.025	0.025	0.025	0.126	0.025	0.025	0.030
รวม (ตัน)	21.84	344.606	148.34	4.216	0.215	0.044	0.104	2.916	0.044	0.084	0.102

ลงชื่อ _____ ข้อมูล
ตำแหน่ง _____
วัน- _____

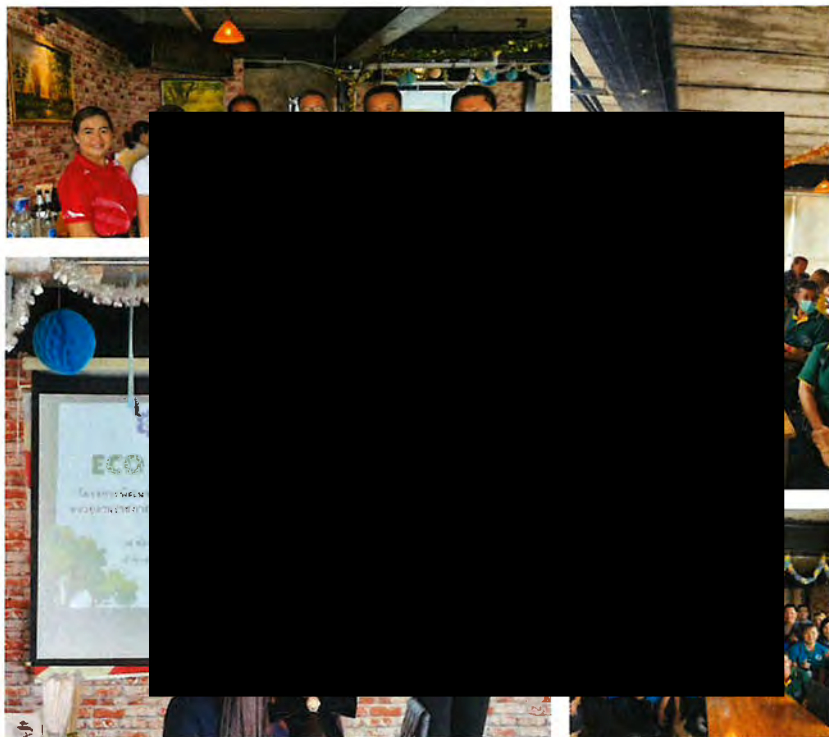
ภาคผนวก ก-17

การดำเนินงานการมีส่วนร่วมกับชุมชน (CSR)

WHA Group Corporate Social Responsibility

Date: September 3, 2024

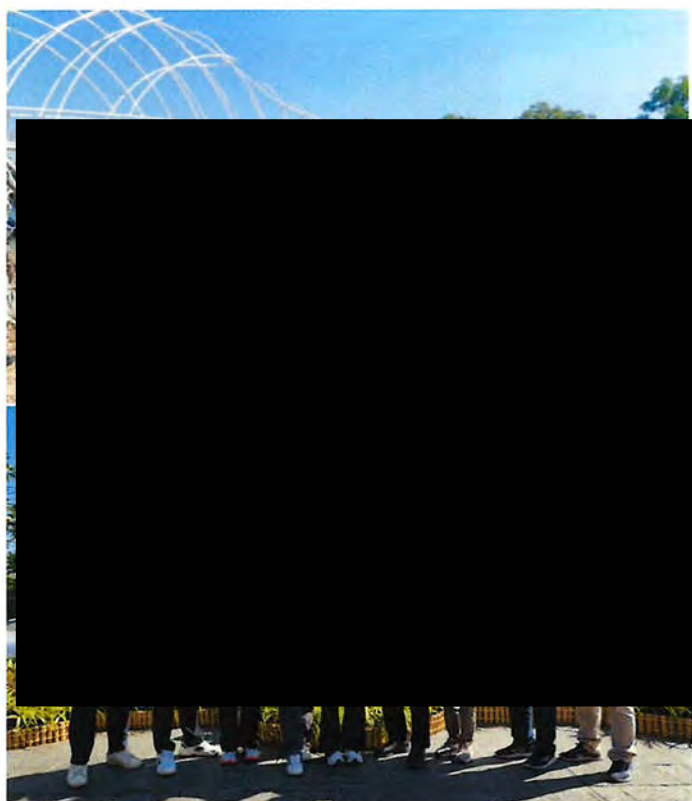
No	Description of Activity	Cost Center	Province	District	Sub district/Municipality/Communities/Government
1 Traditional / Religious / Cultural activities (ศาสนา, วัฒนธรรม, ประเพณี)					
1.31	New year of OBT Pluakdaeng	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.32	New year of Ban Pluakdaeng Municipality	IEO-ESIE	Rayong	Pluakdaeng	Ban Pluakdaeng Municipality
1.33	Sweet pineapple fair	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.34	Children's day (OBT Pluakdaeng)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.35	Motocross racing (OBT Pluakdaeng)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.36	Mother's day	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.37	Loykratong festival	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.38	King's birthday (rama10)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.39	Children's day (Ban Pluakdaeng Municipality)	IEO-ESIE	Rayong	Pluakdaeng	Ban Pluakdaeng Municipality
1.40	Formua B (Buffalo Racing) and food festival	IEO-ESIE	Rayong	Pluakdaeng	Ban Pluakdaeng Municipality
1.41	Songkran festival of OBT Pluakdaeng	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.42	To organize Songkran festival celebration at ESIE office	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.43	Buddhist youth club activity	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.44	Institute of royalty activity (Development center)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.45	Offering Candle to temple (ESIE เป็น Host การติดมนต์ไฟ)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.46	Katin offer ceremony to Wad Klong Kram	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
1.47	Katin offer ceremony to Wad Sripoompoe	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2 Social and Health Promotion Activities (กิจกรรมเพื่อสุขภาพอนามัย)					
2.8	Provincial protection and prevention mitigation activity อปพร. (สนับสนุนช่วยเหลือการแพทย์ ชีโยเน)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.9	Anti-drugs day	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.10	Thai Cup football game supporting	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.11	Anti-drugs football game (To be number one project)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.12	Pluakdaeng golf club	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.13	Mom Fund for Moo 4 Community หนองนา	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.14	Football game for Ban Shak Malai	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.15	Charity Golf Game of PEA	IEO-ESIE	Rayong	Pluakdaeng	PEA
2.16	Charity Bowling by Technical Alumni Club	IEO-ESIE	Rayong	Pluakdaeng	PEA
2.17	Hlt Charity Golf Game by Hlt Club	IEO-ESIE	Rayong	Pluakdaeng	Other
2.18	WHA Cup industrial football game for all customers	IEO-ESIE	Rayong	Pluakdaeng	Other
2.19	Application and expense of ESIE football team to join with WHA cup with the customers	IEO-ESIE	Rayong	Pluakdaeng	Other
2.20	To support Pluakdaeng hospital for medical equipment	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
2.21	To support Rayong youth in-pue (Petch burapha)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3 Environmental Activities (กิจกรรมเกี่ยวกับสิ่งแวดล้อม)					
3.23	Show environmental monitoring result at Wang Tapin intersection ตาม ECO	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.24	Other CSR activity to comply with EIA Ex. มาตรการการโครงการโครงการ	IEO-ESIE	Rayong	Pluakdaeng	Other
3.25	EIA committee allowance, lunch & snack for tri pakee meeting ค่ายเลี้ยงต้อนรับคณะกรรมการโครงการโครงการ	IEO-ESIE	Rayong	Pluakdaeng	Other
3.26	Environmental watching network กิจกรรมเครือข่ายเฝ้าระวังสิ่งแวดล้อม โครงการเกี่ยวกับสิ่งแวดล้อมไม่เกิดหรือ	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.27	To support community enterprise ส่งเสริมผลิตภัณฑ์ชุมชนโคกนา, จัดทำตลาดonline, ส่งเสริมผลิตภัณฑ์ชุมชน, ประสานพันธ์ผลิตภัณฑ์ในโรงงาน	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.28	Innovation of environmental for factories in IE, ส่งเสริมโครงการนวัตกรรมส่งเสริมการคิดแบบ clean technology, Community green net work	IEO-ESIE	Rayong	Pluakdaeng	Other
3.29	Junior environmental detection project สายสืบสิ่งแวดล้อม	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.30	Excavation and dredging natural water channel	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.31	Operation cost for water for planet project (Wetland)	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.32	Safety club สร้างเครือข่ายในการเฝ้าระวังความปลอดภัยในงานด้านสิ่งแวดล้อมและงานปลอดภัยในชุมชน	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.33	Planting community forest กิจกรรมปลูกป่า	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
3.34	Health care program as require by EIA	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
4.2 Contribution (สนับสนุนงานด้านสังคม)					
4.2.15	Support school activity	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
4.2.16	Charity rally for Pluakdaeng วิทยาลัยอาชีวศึกษา	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
4.2.40	Annual School Contribution (for 69 schools)	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong	School
4.2.41	WeCYCLE	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong	School
4.2.42	Teacher Fellowship Program + English Camp	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong	School
4.2.43	WHA Clean Water for Platet Learning Center Community Program	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong	Communities
4.2.44	WHA Art Camp	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong, Sriracha, Nikompattana, Nongyai	School
5 Relationships with government agencies (กิจกรรมสร้างสัมพันธ์กับหน่วยงานราชการ)					
5.1	Contingency Program	CMD	Rayong	Pluakdaeng	OBT Pluakdaeng
5.42	Village leader club งานวันจันทร์ในหมู่บ้าน	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.43	Traffic facility instrument to Bowin police มอบอุปกรณ์อำนวยความสะดวกด้านจราจรให้ ตำรวจภูธร	IEO-ESIE	Rayong	Pluakdaeng	Police
5.44	Traffic facility instrument to Pluakdaeng police มอบอุปกรณ์อำนวยความสะดวกด้านจราจรให้ ตำรวจภูธร	IEO-ESIE	Rayong	Pluakdaeng	Police
5.45	Social activity of Pluakdaeng police station ตามที่ตำรวจภูธร	IEO-ESIE	Rayong	Pluakdaeng	Police
5.46	Social activity by department of interior	IEO-ESIE	Rayong	Pluakdaeng	Police
5.47	Support the operation expense of Pluakdaeng police (Monthly Fee)	IEO-ESIE	Rayong	Pluakdaeng	Police
5.48	Support the operation expense of Bowin police (Monthly Fee)	IEO-ESIE	Rayong	Pluakdaeng	Police
5.49	Support Rayong red cross society fair by Pluakdaeng officer	IEO-ESIE	Rayong	Pluakdaeng	Police
5.50	Provincial officers meet local people	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.51	Support photography club	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.52	The voluntary Civil Protector activity	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.53	To support the good life quality of Or-Bor-Tor Pluakdaeng Project	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.54	Maintenance police car (Plaza) and Plaza2	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.55	Support the construction of a central storage facility to Bowin police	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.56	Reserve for other IEAT activity ตามที่ตำรวจภูธร	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.57	Other event of Pluakdaeng district officers	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.58	Contingency	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.59	Buy the local fruit during over supply in domestic market according to the Or-Bor-Tor Rayong Project	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.60	Buy the local fruit during over demand in Rayong according to the Pluakdaeng project.	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.61	Charity rally for Pluakdaeng district officers	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.62	Charity rally for Pluakdaeng retired officers club	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
5.170	Training for Communities (สนับสนุน) New	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong	Government + Communities
5.171	WHA Pan Gan	CMD	Chonburi, Rayong	Sriracha, Pluakdaeng, Bankhai, Muang Rayong	Government + Communities
5.172	To support all activities around WHA RY36 Expansion	IED	Rayong	Pluakdaeng	Other
5.173	To support all activities around WHA ESIE-3 Expansion	IED	Chonburi, Rayong	Pluakdaeng	IEAT
5.174	IEAT all activities : Kathin ceremony/ทำบุญ/สนับสนุน/ทำบุญ/สนับสนุน/กิจกรรมอื่นๆ	IED	Rayong	Pluakdaeng	Other
5.175	To support all activities for ONEP	IED	Chonburi, Rayong	Pluakdaeng	IEAT
6 Permanent Access Road Access Road					
6.1	Permanent Access Road repairing	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.2	Traffic line painting on Access Road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.3	Traffic sign boards and other traffic facility instrument of Access Road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.4	Power expense for Access Road Street Light	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.5	Repairing street lights along access road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.6	Maintenance and cutting Nuan Noi grass along access road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.7	Maintenance bushes and ground surface cover plant along access road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.8	Maintenance of side road trees along access road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.9	Wild grass cutting along access road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
6.10	Road cleaning and side ditch cleaning along access road	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng
Total (1-6)					
7 Entertainment and Other activities such as funeral, wedding, golf charity, Charity rally, etc.					
7.4	Community event เช่น งานวันชาติ งานฉลอง งานศพ งานขึ้นบ้านใหม่ เป็นต้น	IEO-ESIE	Rayong	Pluakdaeng	OBT Pluakdaeng



ด้านสิ่งแวดล้อม

เข้าร่วมกิจกรรม โครงการ ECO Green Network ร่วมกับ
กนอ. ชุมชน หน่วยงานผู้ประกอบการในพื้นที่ ร้านเวลานี้
ปลวกแดง ระยอง

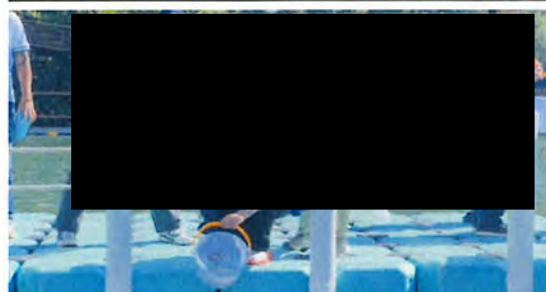
วันที่ 19 มิถุนายน 2567

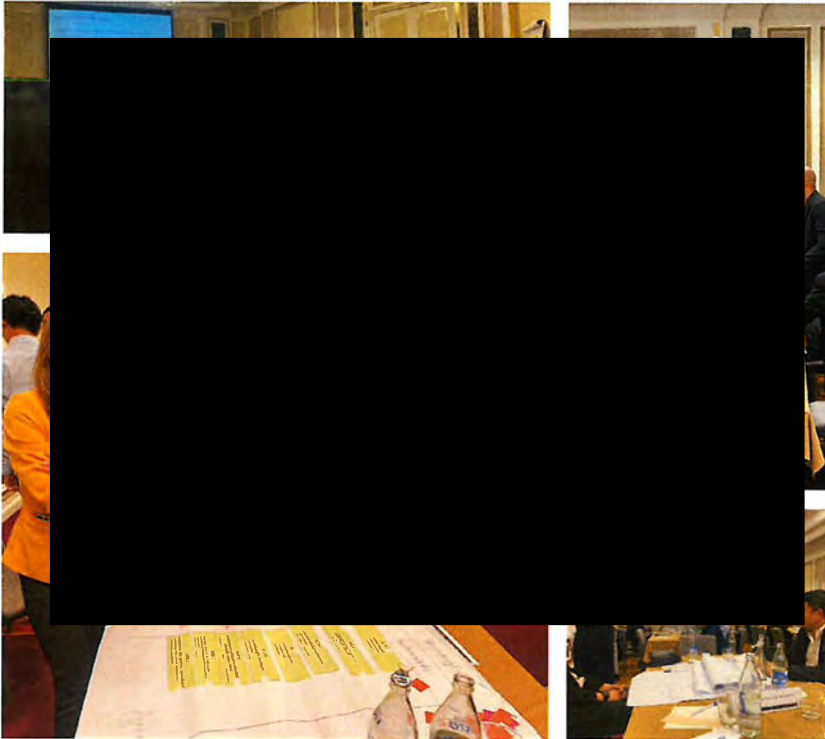


ด้านสิ่งแวดล้อม

สนับสนุนและร่วมกิจกรรม รักษ์ระยองรักษ์แม่น้ำระยอง
เนื่องในวันสิ่งแวดล้อมไทย ปี2567

วันที่ 17 ธันวาคม 2567





ด้านการศึกษา

การประชุมเพื่อระดมความคิดเห็น โครงการศึกษาและ
กำหนดหลักเกณฑ์การประเมินผลลัพธ์ทางสังคมของการ
ดำเนินงานนิคมอุตสาหกรรม (SIA)

วันที่ 7 กรกฎาคม 2567



ด้านการศึกษา

มอบงบประมาณสนับสนุนโครงการผ้าป่าเพื่อการศึกษา
โรงเรียนบ้านปลวกแดง

วันที่ 12 ธันวาคม 2567



ด้านสุขภาพ อนามัย และกีฬา

ร่วมมอบวัคซีน WHA ปันสุข มอบให้กับ อบต.เขาคันทรง อ.
ศรีราชา จ.ชลบุรี

วันที่ 6 มิถุนายน 2567



ด้านสุขภาพ อนามัย และกีฬา

มอบงบประมาณสนับสนุนโครงการแข่งขันกีฬาธิบดี รักบี้
เพชรบูรณ์ครั้งที่ 1

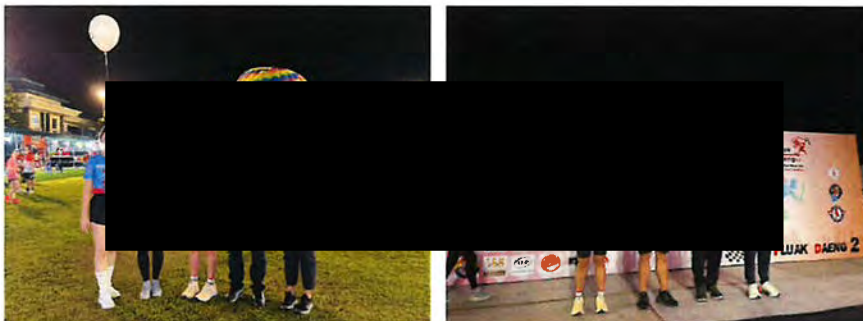
วันที่ 14 สิงหาคม 2567



ด้านสุขภาพ อนามัย และกีฬา

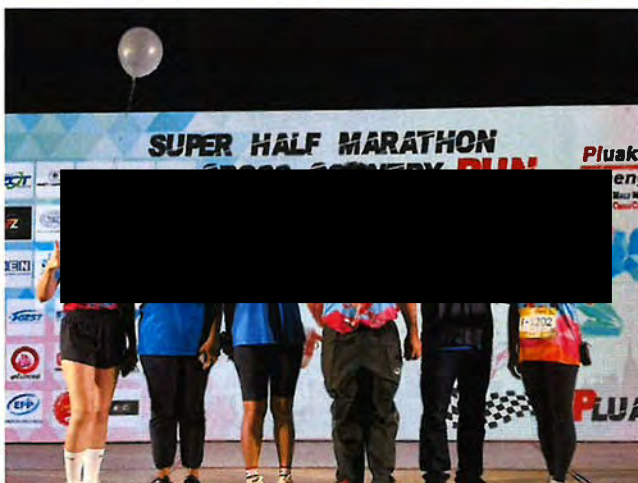
มอบงบประมาณสนับสนุนวัสดุ อุปกรณ์ทางการแพทย์ มอบ
ให้กับสำนักงานสาธารณสุขอำเภอปลวกแดง

วันที่ 9 กันยายน 2567



ด้านสุขภาพ อนามัย และกีฬา

ร่วมพิธีเปิด และปล่อยตัวนักกีฬางานวิ่ง อบต.ปลวกแดง
วันที่ 8 ธันวาคม 2567





ด้านสุขภาพ อนามัย และกีฬา

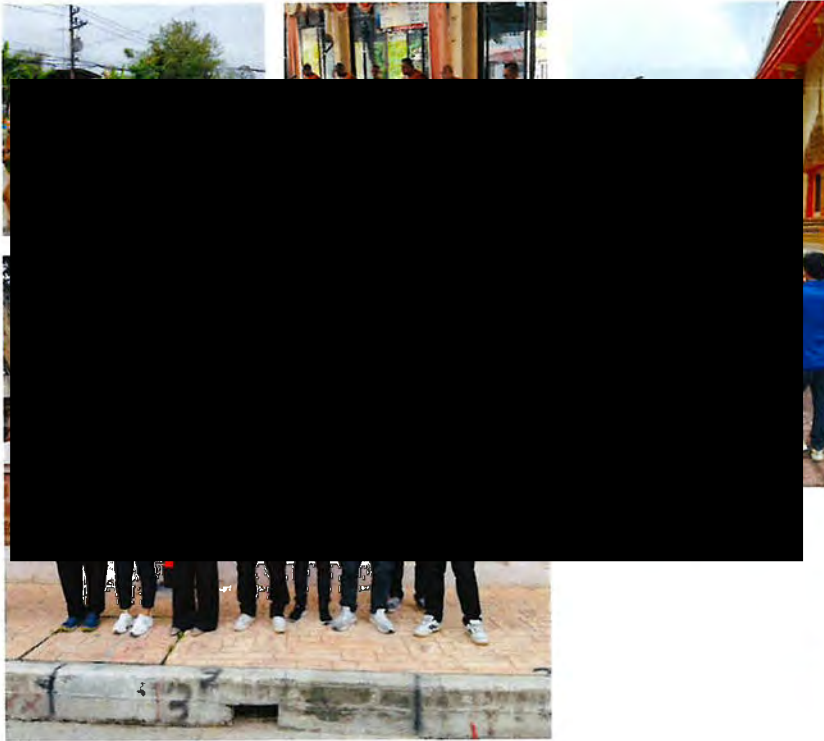
มอบงบประมาณสนับสนุนการจัดทำเสื้อกีฬา สโมสรเพชร
บุรพา

วันที่ 12 ธันวาคม 2567



ด้านสุขภาพ อนามัย และกีฬา

มอบงบประมาณสนับสนุนฟุตบอลสโมสรปลวกแดง ยูไนเต็ด
วันที่ 13 ธันวาคม 2567



ด้านศาสนา วัฒนธรรม ประเพณี

ร่วมกิจกรรมถวายเทียนพรรษาร่วมกับ อบต.
ปลวกแดง ณ วัดโพธิ์สนธิ์ปลวกแดง

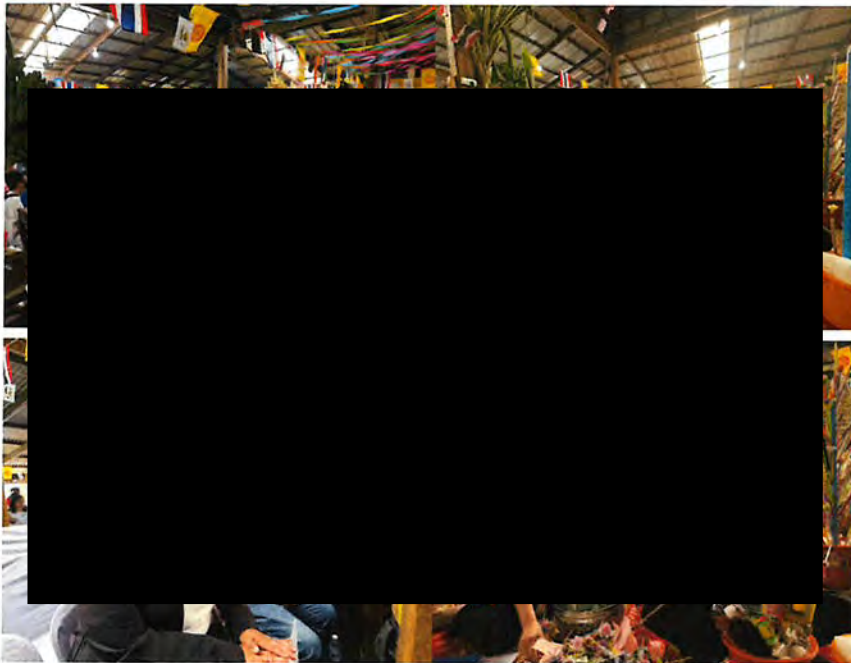
วันที่ 19 กรกฎาคม 2567



ด้านศาสนา วัฒนธรรม ประเพณี

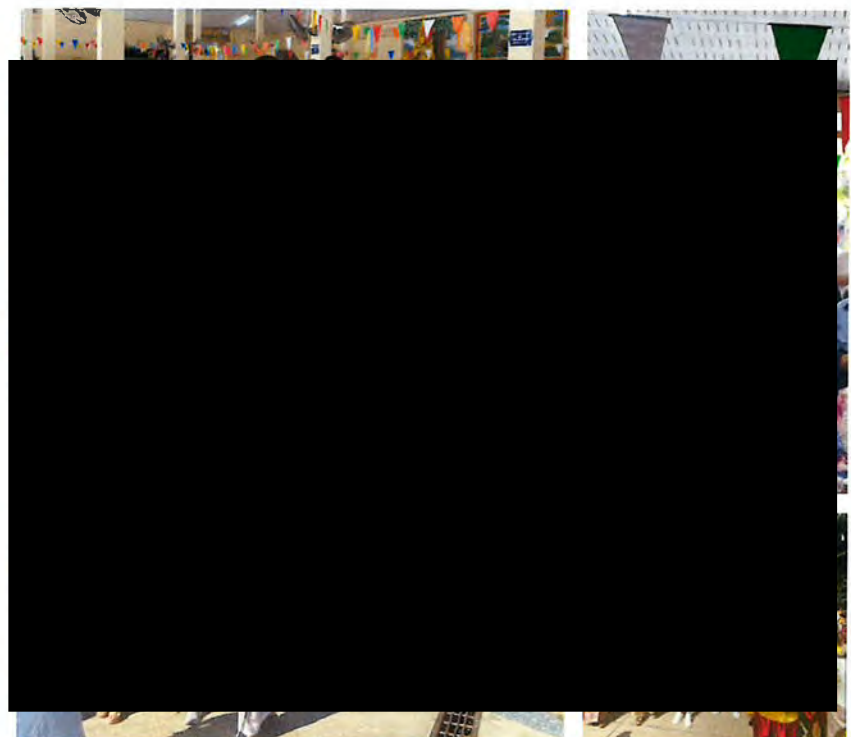
ร่วมงานประเพณีวิ่งควายอำเภอปลวกแดง

วันที่ 18 ตุลาคม 2567



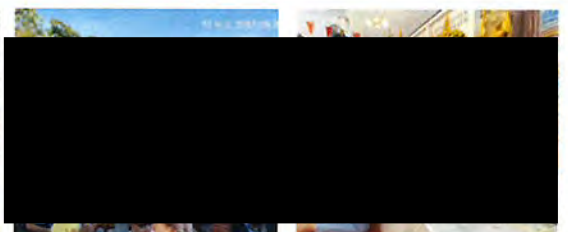
ด้านศาสนา วัฒนธรรม ประเพณี

ร่วมงานทอดกฐิน ณ วัดคลองกร้า
วันที่ 10 พฤศจิกายน 2567



ด้านศาสนา วัฒนธรรม ประเพณี

ร่วมงานทอดกฐินวัดหมอมุ่ย ต.ละหาร อ.ปลวก
แดง จ.ระยอง
วันที่ 10 พฤศจิกายน 2567





ด้านศาสนา วัฒนธรรม ประเพณี

สนับสนุนงบประมาณจัดกิจกรรมวันลอย
กระทง อบต.ปลวกแดง

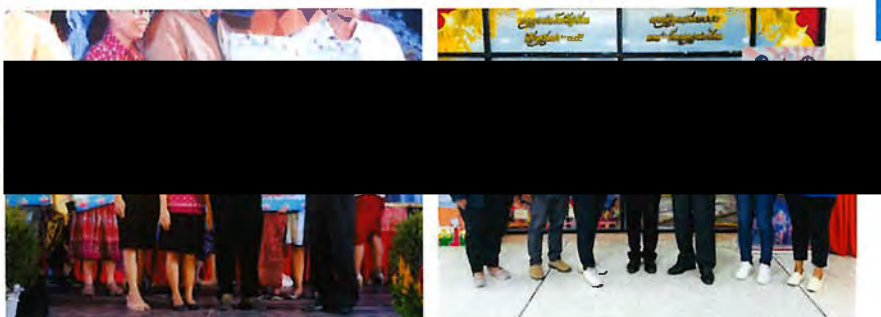
วันที่ 11 พฤศจิกายน 2567



ด้านศาสนา วัฒนธรรม ประเพณี

สนับสนุนงบประมาณจัดกิจกรรมวันลอย
กระทง อบต.ปลวกแดง

วันที่ 11 พฤศจิกายน 2567

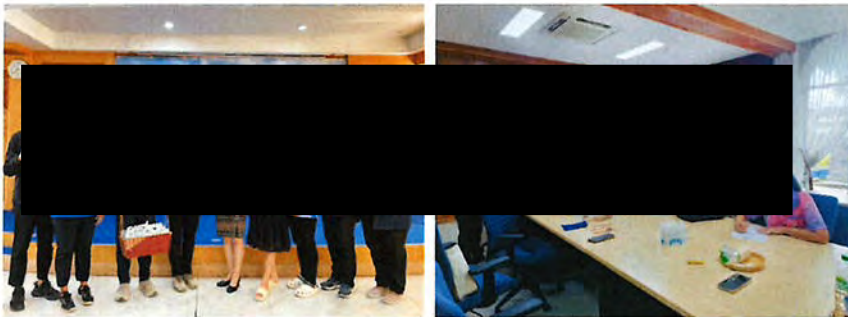




ด้านการสร้าง ความสัมพันธ์

ลงพื้นที่สำรวจความพึงพอใจ ชุมชนปลวกแดง โรงพยาบาล
ปลวกแดง และโรงเรียนบ้านปลวกแดง

วันที่ 3-6 สิงหาคม 2567



ด้านการสร้าง ความสัมพันธ์

สนับสนุนงบประมาณฝึกอบรม อปพร. ปลวกแดง

วันที่ 9 สิงหาคม 2567





ด้านการสร้าง ความสัมพันธ์

มอบงบประมาณสนับสนุน 7 วันอันตราย ชุมชนตาสีหิ

วันที่ 11 พฤศจิกายน 2567



ด้านการสร้าง ความสัมพันธ์

มอบงบประมาณสนับสนุนการจัดซื้ออุปกรณ์ด้านงานจราจร
และการจัดอบรมเพื่อพัฒนาบุคลากร สภ.ปลวกแดง

วันที่ 12 ธันวาคม 2567



ด้านการสร้าง ความสัมพันธ์

มอบงบประมาณสนับสนุนการจัดซื้ออุปกรณ์ด้านงานจราจร
สภ.ป่อวิน

วันที่ 18 ธันวาคม 2567

ภาคผนวก ก-18

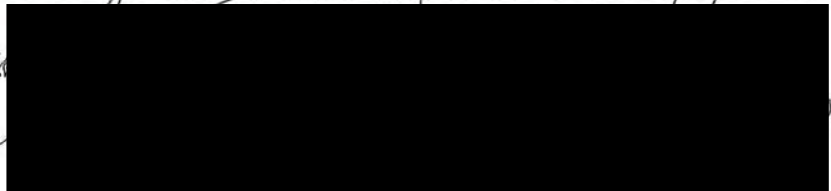
แผนการฝึกซ้อมรับเหตุฉุกเฉิน

แบบฟอร์มแผนการฝึกซ้อมเพื่อตอบโต้ภาวะฉุกเฉินประจำปี (IEO-P-005-F09)

นิคมอุตสาหกรรม [✓] WHACIE [✓] WHACIE2 [✓] WHAIE [✓] ESIE [✓] WHAESIE [✓] WHAESIE2 [✓] WHAESIE3 [✓] WHAESIE 4

[✓] WHALP 1 [✓] WHARIL [✓] WHASIL [✓] WHAR36

Rev.08

แผนการเพื่อตอบโต้ภาวะฉุกเฉิน ประจำปี 2567			นิคมอุตสาหกรรม ...WHACIE,WHACIE2, WHAIE, ESIE, WHAESIE, WHAESIE2, WHAESIE3, WHAESIE4, WHALP 1, WHARIL, WHASIL, WHAR36													หน้าที่ ...1/ 1...			
ลำดับ	รายการฝึกซ้อม	แผน	เดือนที่ทำการฝึกซ้อมเพื่อตอบโต้ภาวะฉุกเฉิน													ผู้รับผิดชอบ	หมายเหตุ		
			ม.ค.	ก.พ.	มี.ค.	เม.ย	พ.ค	มิ.ย.	ก.ค.	ส.ค.	ก.ย.	ต.ค.	พ.ย.	ธ.ค.					
1	การดับเพลิงต้นและอพยพหนีไฟ	แผน		23												OMF			
		ผล																	
2	การควบคุมสารเคมีหกรั่วไหล	แผน				19										OMF			
		ผล																	
3	การควบคุมการเกิดอุบัติเหตุทางจราจร	แผน				19										OMF			
		ผล																	
4	การควบคุมน้ำท่วม	แผน						24								OMF			
		ผล																	
5	ซ้อมแผนฉุกเฉินร่วมผู้ประกอบการ	แผน	ตามแผนการฝึกซ้อมของผู้ประกอบการ													OMF			
		ผล																	
ต้นฉบับ : ให้ OMA เก็บเข้า Filing center สำเนา : OMF/SHE/OMS : ผู้รับผิดชอบ			ปรับปรุง ครั้งที่ 1/2567		จัดทำโดย  วันที่ 11-1-2024													วันที่ 18, 01, 2024	
ผู้รับผิดชอบ			สถานที่จัดเก็บ		วิธีการจัดเก็บ													ระยะเวลาการจัดเก็บ	
OMA			CFS		เก็บเฉพาะฉบับปัจจุบัน													1 ปี	



แผนฉุกเฉิน

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)

(EMERGENCY PLAN)

ประกาศใช้โดย



EOD

เอกสารฉบับนี้ เริ่มใช้วันที่ 1 มกราคม 2567

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ดอินดัสเทรียลเอสเตท (ระยอง)

อำเภอปลวกแดง จังหวัดระยอง

โทรศัพท์ (038) 954543 (Auto)



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



แผนควบคุมภาวะฉุกเฉิน

(EMERGENCY PLAN)

แผนฉุกเฉินนี้ใช้เป็นแนวทางปฏิบัติเมื่อเกิดเหตุเพลิงไหม้ หรือเกิดอุบัติเหตุอื่นๆ ต่อทรัพย์สินอาคาร สำนักงานนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด อินดัสเทรียล เอสเตท (ระยอง) จำกัด โรงกรองน้ำ โรงบำบัดน้ำเสีย และพื้นที่ภายนอกโรงงาน ที่อยู่ในความรับผิดชอบของ บริษัท อีสเทิร์นซีบอร์ด อินดัสเทรียล เอสเตท (ระยอง) จำกัด รวมทั้งร่วมประสานงานกับโรงงานที่ตั้งอยู่ภายในเขตนิคมฯ เมื่อเกิดเหตุอุบัติเหตุ หรือเกิดเหตุการณ์ฉุกเฉิน ทั้งนี้แผนฉุกเฉินฉบับนี้ได้ปรับปรุงให้สอดคล้องกับแผนปฏิบัติการภาวะฉุกเฉินด้านสารเคมี และวัตถุอันตราย จังหวัดระยอง ฉบับ พฤษภาคม 2553 รวมถึงการดำเนินการเกี่ยวกับโรครณะ

1. วัตถุประสงค์ (Objective)

วัตถุประสงค์ของแผนฉุกเฉินหรือแผนปฏิบัติการมีดังนี้

1. ระงับเหตุเพื่อลด อันตราย และความเสียหายต่อชีวิตคน และชุมชนให้น้อยที่สุด
2. รักษาทรัพย์สิน และอุปกรณ์มิให้เกิดความเสียหาย ให้น้อยที่สุด
3. เป็นแบบแผน และแนวทางปฏิบัติ สำหรับใช้ขณะเกิดเหตุฉุกเฉิน ภายในนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) โดยจะกำหนดหน้าที่ที่รับผิดชอบของแต่ละหน่วยงาน ทั้งในส่วนที่เกี่ยวข้องโดยตรง หรือไม่เกี่ยวข้องก็ตาม ในการระงับเหตุ
4. เพื่อช่วยเหลือผู้ป่วย/ผู้ที่ได้รับบาดเจ็บ หรือผู้ที่ประสบเหตุ
5. สำหรับเป็นแบบอย่างในการฝึกซ้อม เพื่อเตรียมพร้อมที่จะรับมือสถานการณ์ที่จะเกิดขึ้นได้ดังนี้ เพื่อให้เจ้าหน้าที่ และผู้รับผิดชอบเกิดความชำนาญ และนำข้อผิดพลาด, ข้อบกพร่อง มาปรับปรุง และแก้ไขต่อไป
6. เพื่อการฟื้นฟูและปรับปรุงสถานที่เกิดเหตุให้กลับสู่สภาพปกติ

2. ขอบเขต (Scope)

แผนฉุกเฉินตามระเบียบนี้ครอบคลุมถึงเหตุการณ์ฉุกเฉินที่เกิดขึ้นภายในนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) รวมถึงระบบท่อส่งก๊าซและผลกระทบต่อบริษัทหรือชุมชนข้างเคียง โดยมีขอบเขตของเหตุฉุกเฉินดังนี้

1. กรณีเกิดอัคคีภัย
2. กรณีสารเคมีหกรั่วไหล, รถบรรทุกสารเคมี พลิกคว่ำ
3. กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.
4. กรณีเหตุที่เกิดจากโรงงานภายในนิคมอุตสาหกรรม ที่ส่งผลกระทบต่อส่วนรวม
5. กรณีเกิดเหตุอุทกภัย
6. กรณีเกิดการชุมนุมประท้วง



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



7. การป้องกันและควบคุมภัยจากโรคติดต่อและโรคระบาด
3. คำจำกัดความ
 1. ภาวะฉุกเฉินหรือเหตุฉุกเฉิน (Emergency) หมายถึง สภาวะที่มีอันตรายหรืออันตรายแฝงสูง ซึ่งเมื่อเกิดขึ้นแล้วส่งผลกระทบต่อชีวิต ทรัพย์สิน สิ่งแวดล้อม ที่ประกอบไปด้วย เหตุ ไฟไหม้, น้ำท่วม, สารเคมีหกรั่วไหล หรือเป็นสภาวะที่เกิดขึ้นแล้วไม่สามารถควบคุมให้อยู่ในสภาวะปกติได้ในเวลาอันจำกัด
 2. อุบัติภัยภัยสารเคมี หมายถึง ภัยที่เกิดขึ้นจากสารเคมีและวัตถุอันตราย อันมีผลกระทบต่อสาธารณสุข ไม่ว่าเกิดจากธรรมชาติ มีผู้ทำให้เกิดขึ้น อุบัติเหตุ หรือเหตุอื่นใด ซึ่งก่อให้เกิดอันตรายแก่ชีวิตร่างกายของประชาชน หรือความเสียหายแก่ทรัพย์สินของประชาชนหรือของรัฐ และสิ่งแวดล้อม
 3. การป้องกัน (Prevention) หมายถึง มาตรการและกิจกรรมต่างๆ ที่กำหนดขึ้นล่วงหน้า ทั้งทางด้านโครงสร้าง (Structural Approach) และที่ไม่มีโครงสร้าง (Non Structural Approach) เพื่อลดหรือควบคุมผลกระทบในทางลบจากสาธารณภัย
 4. การลดผลกระทบ (Mitigation) หมายถึง กิจกรรมหรือวิธีการต่างๆ เพื่อหลีกเลี่ยงและลดผลกระทบทางลบจากสาธารณภัย และยังหมายถึงการลดและป้องกันมิให้เกิดเหตุหรือลดโอกาสที่อาจก่อให้เกิดสาธารณภัย
 5. การเตรียมความพร้อม (Preparedness) หมายถึง มาตรการและกิจกรรมที่ดำเนินการล่วงหน้าก่อนเกิดสาธารณภัย เพื่อเตรียมพร้อมการจัดการในสถานการณ์ฉุกเฉิน ให้สามารถรับมือกับผลกระทบจากสาธารณภัยได้อย่างทันการณ์ และมีประสิทธิภาพ
 6. ภาวะฉุกเฉิน (Emergency) หมายถึง สภาวะที่มีอันตรายหรืออันตรายแฝงสูง ซึ่งเมื่อเกิดขึ้นแล้วส่งผลกระทบต่อชีวิต ทรัพย์สิน สิ่งแวดล้อม หรือเป็นสภาวะที่เกิดขึ้นแล้วไม่สามารถควบคุมให้อยู่ในสภาวะปกติได้ในเวลาอันจำกัด
 7. การฟื้นฟูบูรณะ (Rehabilitation) หมายถึง การฟื้นฟูสภาพเพื่อทำให้สิ่งที่ถูกทำลายหรือได้รับความเสียหายจากสาธารณภัยได้รับการช่วยเหลือ แก้ไขให้กลับคืนสู่สภาพเดิมหรือดีกว่าเดิม รวมทั้งให้ผู้ประสบภัยสามารถดำรงชีวิตตามสภาพปกติได้โดยเร็ว
 8. พื้นที่เสี่ยง (Risk Area) หมายถึง สถานที่ตั้งที่มีโอกาสหรือความเป็นไปได้ที่เหตุการณ์ใดเหตุการณ์หนึ่งจะ เกิดขึ้น และนำมาซึ่งผลกระทบทางลบต่างๆ ต่อวิถีชุมชนและทรัพย์สินของประชาชน
 9. ภัยที่เกิดจากสารเคมีและวัตถุอันตราย หมายถึง ภัยที่เกิดจากสารเคมีและวัตถุอันตรายรั่วไหล เพลิงไหม้และการระเบิด ซึ่งเกี่ยวข้องกับสถานที่ที่มีการเก็บ การใช้ การบรรจุ และการขนส่ง ทั้งที่เคลื่อนที่ได้และไม่ได้



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



10. สารเคมีและวัตถุอันตราย หมายถึง สิ่งที่มีลักษณะอย่างใดอย่างหนึ่ง ดังต่อไปนี้
 - 1) วัตถุที่ระเบิดได้ หมายถึง เป็นสารที่เกิดการระเบิดได้ เมื่อได้รับความร้อน เปลวไฟ ถูกกระแทกหรือจุดระเบิด เช่น กระสุนปืน ดินระเบิด ดินปืน ตัวจุดระเบิดพลู แก๊ส ประทัด ดอกไม้ไฟ เป็นต้น
 - 2) ก๊าซ หมายถึง ก๊าซที่สามารถติดไฟได้ง่ายเมื่อได้รับความร้อน หรือ เปลวไฟ เช่น ก๊าซหุงต้ม ก๊าซไฮโดรเจน ก๊าซบิวเทน เป็นต้น หรือก๊าซที่เมื่อสูดดมกลิ่นหรือสัมผัสถูกร่างกายแล้ว ทำให้เกิดอันตรายต่อสุขภาพและอาจเสียชีวิตได้ เช่น ก๊าซคลอรีน ก๊าซแอมโมเนีย เป็นต้น หรือ ก๊าซที่ถูกอัดไว้ในถังด้วยความดันสูงเมื่อถูกกระแทกอย่างแรงอาจเกิดระเบิดได้ เช่น ก๊าซคาร์บอนไดออกไซด์ ก๊าซออกซิเจน เป็นต้น
 - 3) ของเหลวไวไฟ หมายถึง ของเหลวที่สามารถติดไฟได้ง่ายเมื่อได้รับความร้อนหรือเปลวไฟ เช่น บิวเทน เมทิลแอลกอฮอล์ เอทิลแอลกอฮอล์ น้ำมัน เป็นต้น
 - 4) ของแข็งไวไฟ หมายถึง สารที่ถูกไฟไหม้ได้ง่ายเมื่อได้รับความร้อนหรือ เปลวไฟ เช่น ไม้ขีดไฟ กำมะถัน ฟอสฟอรัส ลิทโมส เป็นต้น หรือสารที่เมื่อถูกน้ำหรือความชื้นจะทำให้เกิดก๊าซไวไฟ ซึ่งถูกไฟไหม้ได้ เช่น แคลเซียมคาร์ไบด์ โซเดียม เป็นต้น
 - 5) สารออกซิไดซ์และสารเปอร์ออกไซด์อินทรีย์ หมายถึง สารที่ตัวเองไม่เกิดการลุกไหม้ แต่ช่วยให้สารอื่นลุกไหม้ได้โดยสะดวกทำให้ก๊าซออกซิเจนออกมา เช่น ฟูมเมมโมเนียมไนเตรท ค่างทับทิม เป็นต้น หรือ สารที่สลายตัวแล้วให้ก๊าซออกซิเจน ซึ่งจะทำให้ตัวเองและสารอื่นเกิดการลุกไหม้ เช่น อะเซทิลเพอร์ออกไซด์ เป็นต้น
 - 6) สารมีพิษและสารติดเชื้อโรค หมายถึง สารที่เมื่อกิน สัมผัสกับผิวหนัง หรือสูดดมหายใจรับสารนี้แล้วเป็นอันตรายต่อร่างกายและอาจทำให้เสียชีวิตได้ เช่น ปรอต คะถั่ว แคดเมียม ยาฆ่าแมลง หรือสารที่ปนเปื้อนกับอาหารแล้วกินเข้าไปจะเป็นอันตราย เช่น สารละลายฟอสฟอริก หรือสารติดเชื้อ ใต้แก๊ส เชื้อจุลินทรีย์ เป็นต้น
 - 7) วัตถุไวไฟอันตราย หมายถึง ธาตุหรือสารประกอบใด ๆ ที่มีองค์ประกอบส่วนหนึ่ง มีโครงสร้างภายในอะตอมไม่คงตัวและสลายตัวโดยการปลดปล่อยรังสีไอออไนซ์ เช่น โคบอลต์-60 เบริลเลียม-226 เป็นต้น
 - 8) สารกัดกร่อน หมายถึง สารที่มีคุณสมบัติในการทำลายเนื้อเยื่อของร่างกาย เช่น กรด ค่าง เป็นต้น
 - 9) สารหรือวัตถุอันตรายที่อาจเป็นอันตรายได้ หมายถึง สารที่ไม่ได้จัดอยู่ในประเภทใดใน 8 ประเภทข้างต้นแต่สามารถก่อให้เกิดอันตรายได้ เช่น สารคลอโรฟลูโอโรคาร์บอน (CFC) เป็นต้น
11. โรคระบาด หมายถึง โรคติดต่อหรือโรคที่ยังไม่ทราบสาเหตุของการเกิดโรคแน่ชัด ซึ่งอาจแพร่ไปสู่ผู้อื่นได้ อย่างรวดเร็วและกว้างขวาง หรือมีภาวะของการเกิดโรคมามากผิดปกติที่เคยเป็นมา
12. ผู้บัญชาการเหตุการณ์ (IC : Incident Command) หมายถึง ผู้ว่าราชการจังหวัด (ผู้อำนวยการจังหวัด) นายอำเภอ (ผู้อำนวยการอำเภอ) นายก อบต./เทศบาล (ผู้อำนวยการท้องถิ่น)



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



13. ผู้อำนวยการในภาวะฉุกเฉิน (ED : Emergency Director) หมายถึง ผู้สั่งการสูงสุดของโรงงานและเป็นผู้ให้ข้อมูลแก่หน่วยงานที่เข้าร่วมปฏิบัติการ
14. ผู้สั่งการ ณ ที่เกิดเหตุ (OC : On-scene Commander) หมายถึง สั่งการ ณ จุดเกิดเหตุ ทำหน้าที่ควบคุมสถานการณ์ และสั่งการ บริเวณที่เกิดเหตุ
15. ผู้ประสานงานของโรงงาน (MC : MUTUAL AID CO-ORDINATOR) หมายถึง ผู้ทำหน้าที่ประสานงานกับหน่วยสนับสนุนจากภายนอก ให้การต้อนรับ แจ้งข้อมูลข่าวสาร และการประสานการปฏิบัติกับกองอำนาจป้องกันและบรรเทาสาธารณภัยองค์กรปกครองส่วนท้องถิ่นแห่งพื้นที่ กองอำนาจป้องกันและบรรเทาสาธารณภัยอำเภอ หรือโรงงานข้างเคียง
16. หัวหน้าทีมดับเพลิง (FC : Fire Chief) หมายถึง ผู้ที่ทำหน้าที่เป็นหัวหน้าชุดดับเพลิง ทำหน้าที่ควบคุม บัญชาการ และสั่งการหัวหน้าชุดดับเพลิงต่างๆ ในที่เกิดเหตุ โดยปฏิบัติกรภายใต้คำสั่งการของ OC
17. หัวหน้าชุดดับเพลิง (FL : Fire Leader) หมายถึง ผู้ที่ทำหน้าที่เป็นหัวหน้าพนักงานดับเพลิง ทำหน้าที่เป็นผู้ควบคุมพนักงานดับเพลิงโดยรับคำสั่งจาก FC
18. คอยได้ภาวะฉุกเฉิน หรือทีมระงับเหตุ (ERT : Emergency Respond Team) หมายถึง ทีมคอยได้ภาวะฉุกเฉิน หรือทีมระงับเหตุฉุกเฉิน
19. ทีมปฐมพยาบาล (FT : First Aid Team) หมายถึง ผู้ที่ทำหน้าที่การปฐมพยาบาลผู้ที่ได้รับบาดเจ็บ หรือได้ผลกระทบจากเหตุฉุกเฉิน
20. ทีมสนับสนุน และทีมอพยพ (ST : Support Team and evacuation team) หมายถึง ผู้ที่ทำหน้าที่ให้การสนับสนุนกับทุกทีมที่เกี่ยวข้องกับการควบคุมเหตุฉุกเฉิน และทำหน้าที่นำผู้ที่ไม่เกี่ยวข้องกับการควบคุมเหตุฉุกเฉินอพยพไปยังจุดรวมพลหรือจุดที่ปลอดภัย พร้อมรายงานจำนวนพนักงานที่อพยพทั้งหมดให้กับ ED รับทราบ
21. ทีมจราจร และรักษาความปลอดภัย (TT : Traffic Team) หมายถึง ผู้ที่ทำหน้าที่อำนวยความสะดวกด้านการจราจรรวมถึงการปิดกั้นการจราจรเพื่อไม่ให้ผู้ที่ไม่เกี่ยวข้องเข้าไปยังบริเวณที่เกิดเหตุฉุกเฉิน และรักษาความปลอดภัย
22. ทีมที่ปรึกษา (CT : Consultant Team) หมายถึง ผู้ที่มีความเชี่ยวชาญเฉพาะด้านและสามารถให้การปรึกษาหรือแนะนำเกี่ยวกับการควบคุมเหตุฉุกเฉินให้กับ ED
23. ทีมตัดแยกระบบ (IT : Isolation Team) หมายถึง ผู้ที่ทำหน้าที่ให้การสนับสนุนการตัดแยกระบบไฟฟ้าหรือระบบการทำงานของเครื่องจักรรวมถึงการตัดการหมุนเนื่องเชื้อเพลิงที่เป็นของเหลวที่ขนส่งทางท่อโดยการ ปิดวาล์ว, บล็อกวาล์ว (Block valve)



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



24. ชุมชุมประทัง หมายถึง การรวมตัวกันของพนักงานบริษัทที่อยู่ในนิคมอุตสาหกรรมฯ จำนวนมาก เพื่อเรียกร้องสิทธิในการจ้างงานต่างๆ
 25. จุดรวมพล (Assembly Point) หมายถึง จุดรวมพลในกรณีที่ต้องอพยพคนจากจุดที่เกิดเพลิงไหม้หรือเหตุฉุกเฉินต่างๆที่ไม่สามารถควบคุมสถานการณ์ได้ ไปยังจุดที่ปลอดภัยที่สุด
 26. อัคคีภัย หมายถึง ภัยอันตรายอันเกิดจากไฟที่ขาดการควบคุมดูแล ทำให้เกิดการติดต่อกลุกลามไปตามบริเวณที่มีเชื้อเพลิงเกิดการลุกไหม้ต่อเนื่อง
 27. วาดภัย หมายถึง ภัยธรรมชาติซึ่งเกิดจากพายุลมแรง จนทำให้เกิดความเสียหายแก่อาคารบ้านเรือน ต้นไม้ และสิ่งก่อสร้าง
 28. อุทกภัย หมายถึง ภัยที่เกิดขึ้นเนื่องจากมีน้ำเป็นสาเหตุ อาจจะเป็นน้ำท่วม น้ำป่า หรืออื่นๆ โดยปกติอุทกภัยเกิดจากฝนตกหนักต่อเนื่องกันเป็นเวลานาน
4. การปฏิบัติการควบคุมภาวะฉุกเฉิน
- 4.1 กรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, สารเคมีหกรั่วไหล, กรณีรถบรรทุกสารเคมี พลิกคว่ำ, กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.
- กำหนดให้มีการจัดระดับขั้นเหตุภาวะฉุกเฉินของกลุ่มนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ไว้ 3 ระดับ ดังนี้
- 1) เหตุการณ์ผิดปกติ : เหตุการณ์ที่ส่งผลกระทบหรืออาจก่อให้เกิดผลกระทบต่อชุมชนและโรงงานข้างเคียง เนื่องจากกิจกรรมของผู้ประกอบการ หรือเหตุฉุกเฉินที่เกิดขึ้นแล้ว บริษัทหรือหน่วยงานที่เกิดขึ้นนั้นสามารถควบคุมและระงับเหตุฉุกเฉิน ได้ตนเองโดยใช้กำลังคนและอุปกรณ์ที่ตนเองมีอยู่ (รวมถึงการขอความช่วยเหลือจากหน่วยงานที่อาสาให้ความช่วยเหลือกรณีเกิดเหตุฉุกเฉินไว้)

หมายเหตุ

เป็นระดับที่เกิดขึ้นในนิคมอุตสาหกรรม, โรงงานอุตสาหกรรม/สถานประกอบการ เป็นเหตุฉุกเฉินในโรงงาน หรือตามเส้นทางขนส่ง หรือแนวท่อส่งผลิตภัณฑ์ ซึ่งเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ หรือ โรงงานใกล้เคียงจุดบนเส้นทางที่เกิดอุบัติเหตุจากขนส่ง หรือผู้ประกอบการต้นเหตุ สามารถควบคุมสถานการณ์และระงับเหตุได้ โดยแบ่งประเภท ไว้ ดังนี้

- เรื่องอุบัติเหตุบนท้องถนน สามารถควบคุมสถานการณ์และระงับเหตุได้
- พบอุบัติเหตุเกี่ยวกับรถส่วนบุคคล ก็ควางการจราจร/ไม่กีดขวางการจราจร
- เกิดอุบัติเหตุเกี่ยวกับรถบรรทุกวัตถุดิบและผลิตภัณฑ์ ไม่มีสารเคมีรั่วไหล ก็ควางการจราจร/ไม่กีดขวางการจราจร



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- เกิดอุบัติเหตุเกี่ยวกับรถบรรทุกวัตถุดิบและผลิตภัณฑ์ มีสารเคมีรั่วไหล กีดขวางการจราจร/ ไม่กีดขวางการจราจร
 - เหตุการณ์ผิดปกติอื่น ๆ ที่เกี่ยวข้องกับประเภท เรื่องอุบัติเหตุบนท้องถนน
 - การดำเนินงานที่ไม่ใช่การดำเนินงานปกติ สามารถควบคุมสถานการณ์และระงับเหตุได้ เช่น การหยุดปฏิบัติงานฉุกเฉิน (EMERGENCY SHUT DOWN) การหยุดปฏิบัติงานเพื่อซ่อมบำรุงทั้งระบบ (TURNAROUND) การเริ่มปฏิบัติงานระบบ (START UP) ทดสอบระบบ (COMMISSION) การดำเนินงานอื่น ๆ ซึ่งก่อให้เกิดผลกระทบ ดังนี้
 - เกิดเสียงดังผิดปกติ
 - แสงสว่างจ้าและความร้อน จากห่อเผา (Flare)
 - กลิ่น, ฝุ่น ก่อให้เกิดผลกระทบต่อทั้งภายใน / ภายนอก และก่อความเดือดร้อนรำคาญ
 - เหตุฉุกเฉินของโรงงาน สามารถควบคุมสถานการณ์และระงับเหตุได้ เช่น
 - เหตุอัคคีภัย, อุทกภัยหรือระเบิด
 - เหตุรั่วไหล ระเหย ของสารเคมีหรือผลิตภัณฑ์ เช่น ก๊าซพิษ, ก๊าซไวไฟ, ก๊าซเฉื่อยน้ำมันหกรั่วไหล เป็นต้น
 - เหตุสารเคมีมันดภาพรั่วสั้วไหล
 - เหตุอื่นๆ ที่ทำอันตรายต่อสิ่งแวดล้อมและสุขภาพ
 - เหตุจากการขนส่งทางท่อ และผลกระทบที่มีต่อระบบท่อผลิตภัณฑ์ สามารถควบคุมสถานการณ์และระงับเหตุได้
- 2) เหตุฉุกเฉินระดับ 1 : เหตุฉุกเฉินที่เกิดขึ้นต่อเนื่องจากเหตุการณ์ผิดปกติหรือเหตุฉุกเฉินที่มีความรุนแรงส่งผลกระทบต่อภายนอกพื้นที่ โดยบริษัทหรือหน่วยงานที่เกิดเหตุนั้นไม่สามารถควบคุมเหตุการณ์ดังกล่าวได้ ด้วยกำลังคนและอุปกรณ์ของบริษัทหรือหน่วยงานที่เกิดเหตุต้องขอความช่วยเหลือจากสำนักงานนิคมฯ และหน่วยงานภายนอกอื่นๆ โดยบริษัทหรือหน่วยงานที่เกิดเหตุฉุกเฉินนั้นแจ้งร้องขอความช่วยเหลือจากสำนักงานนิคมฯ ก่อนที่จะขอความช่วยเหลือไปยังหน่วยงานราชการภายนอก
- 3) เหตุฉุกเฉินระดับ 2 : เหตุฉุกเฉินต่อเนื่องจากเหตุฉุกเฉินระดับ 1 หรือเหตุฉุกเฉินที่เกิดขึ้นแล้วมีผลกระทบต่อเนื่องถึงหน่วยงานภายนอกทั้ง โรงงานและชุมชนใกล้เคียงหรือส่งผลกระทบต่อสิ่งแวดล้อมอย่างรุนแรงเป็นวงกว้างทันที เกินความสามารถของบริษัทที่เกิดเหตุ และทีมระงับเหตุตามแผนฉุกเฉินของสำนักงานนิคมฯ และหรือบริษัทภายนอกอื่นๆ ที่จะระงับเหตุหรือควบคุมสถานการณ์ไว้ได้ ต้องขอความช่วยเหลือจากกองอำนาจการป้องกันและบรรเทาสาธารณภัยของกรมปกครองท้องถิ่นพื้นที่ (อบต. ปลวกแดง, เทศบาลปลวกแดง) และหรือกอง



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- อำนาจการป้องกันและบรรเทาสาธารณภัยจังหวัดระยอง เพื่อดำเนินการระงับเหตุหรือควบคุมสถานการณ์ หรืออพยพ
- 4.1.1 วิธีปฏิบัติกรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, สารเคมีหกรั่วไหล, กรณีรถบรรทุกสารเคมี พลิกคว่ำกรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.
- 1) เมื่อเกิดเหตุเพลิงไหม้อาคารต่างๆ เช่น อาคารสำนักงาน, อาคารปฏิบัติการ, อาคารเก็บสารเคมี เป็นต้น ให้พนักงาน หรือผู้ที่พบเห็นรีบดำเนินการแจ้งเหตุ ทันที โดยทางโทรศัพท์ หรือวิทยุสื่อสาร
 - 2) เมื่อประกาศภาวะฉุกเฉินให้ผู้ที่มีหน้าที่ในแผนฉุกเฉินปฏิบัติตามแผนฉุกเฉินที่วางเอาไว้
 - 3) ผู้ที่ไม่มีหน้าที่ในแผนฉุกเฉินให้ไปรวมกันยังจุดที่ปลอดภัยเพื่อสะดวกต่อการนับจำนวนพนักงาน
 - 4) ให้เจ้าหน้าที่ควบคุมดูแลอาคารตราบจนจำนวนพนักงานแล้วรายงานไปยังศูนย์ควบคุมภาวะฉุกเฉิน
 - 5) ให้เจ้าหน้าที่ดูแลอาคารพยายามควบคุมเพลิงด้วยอุปกรณ์ดับเพลิงที่มีอยู่ใกล้เคียง หรือเท่าที่หาได้ ขณะรอเจ้าหน้าที่ดับเพลิง
 - 6) เมื่อเจ้าหน้าที่ดับเพลิงได้รับแจ้งเหตุให้หัวหน้ากะดับเพลิงและความปลอดภัยนำทีมงานออกตอบโต้ภาวะฉุกเฉินโดยให้ปฏิบัติตามแผนปฏิบัติฉุกเฉิน และระเบียบการปฏิบัติงานการรับแจ้งและรายงานเหตุฉุกเฉิน
 - 7) ทำการฟื้นฟูสภาพให้กลับสู่สภาพปกติ โดยเร็วที่สุด (ตามแผนฟื้นฟู)
- 4.2 กรณีเกิดน้ำท่วม
- กำหนดให้มีการจัดระดับชั้นเหตุภาวะฉุกเฉินกรณี เกิดน้ำท่วมซึ่งเกิดขึ้นภายในนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ไว้ 3 ระดับ ดังนี้
- 1) เหตุการณ์ผิดปกติ : เป็นอุทกภัยขนาดเล็ก ที่เกิดขึ้นกับโรงงาน/สถานประกอบการ หรือ นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ซึ่งเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ หรือนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) สามารถควบคุมสถานการณ์และระงับเหตุได้ ด้วยกำลังคนและขีดความสามารถของคนเอง
 - 2) ภาวะฉุกเฉินระดับ 1 : เป็นอุทกภัยขนาดเล็ก ที่มีสถานการณ์เกินขีดความสามารถของโรงงาน หรือผู้ประกอบการต้นเหตุ หรือนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ไม่สามารถควบคุมหรือระงับเหตุได้ ส่งผลกระทบต่อโรงงาน, ผู้ประกอบการ, นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) หรือประชาชนในพื้นที่ของนิคมฯ ต้องขอความช่วยเหลือจากหน่วยงานปกครองส่วนท้องถิ่นแห่งพื้นที่รับผิดชอบ โดยหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่นแห่งพื้นที่รับผิดชอบ (เทศบาลปลวกแดง, องค์การบริหารส่วนตำบลปลวกแดง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยอำเภอ



(อำเภอปลวกแดง) ต้องเข้ามามีส่วนในการควบคุม และสั่งการระงับเหตุ, ควบคุมสถานการณ์ หรือการอพยพ โดยสามารถให้ความช่วยเหลือผู้ได้รับผลกระทบได้

- 3) ภาวะฉุกเฉินระดับ 2 (ระดับจังหวัด) : เป็นอุทกภัยภัยที่ขนาดกลาง เหตุการณ์ขยายตัว ลุกลามส่งผลกระทบต่อโรงงาน นิคมอุตสาหกรรมหรือประชาชนที่อยู่รอบข้างนิคมฯ เกินขีดความสามารถของหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่นแห่งพื้นที่รับผิดชอบ (เทศบาลปลวกแดง, องค์การบริหารส่วนตำบลปลวกแดง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยอำเภอ (อำเภอปลวกแดง) ไม่สามารถระงับภัยและควบคุมสถานการณ์ได้ จะต้องขอความช่วยเหลือจาก กองอำนาจการป้องกันภัยและบรรเทาสาธารณภัยจังหวัด (จังหวัดระยองและจังหวัดใกล้เคียง) รวมทั้งหน่วยงานสนับสนุนจากหน่วยงานภายนอกระดับอื่น ๆ

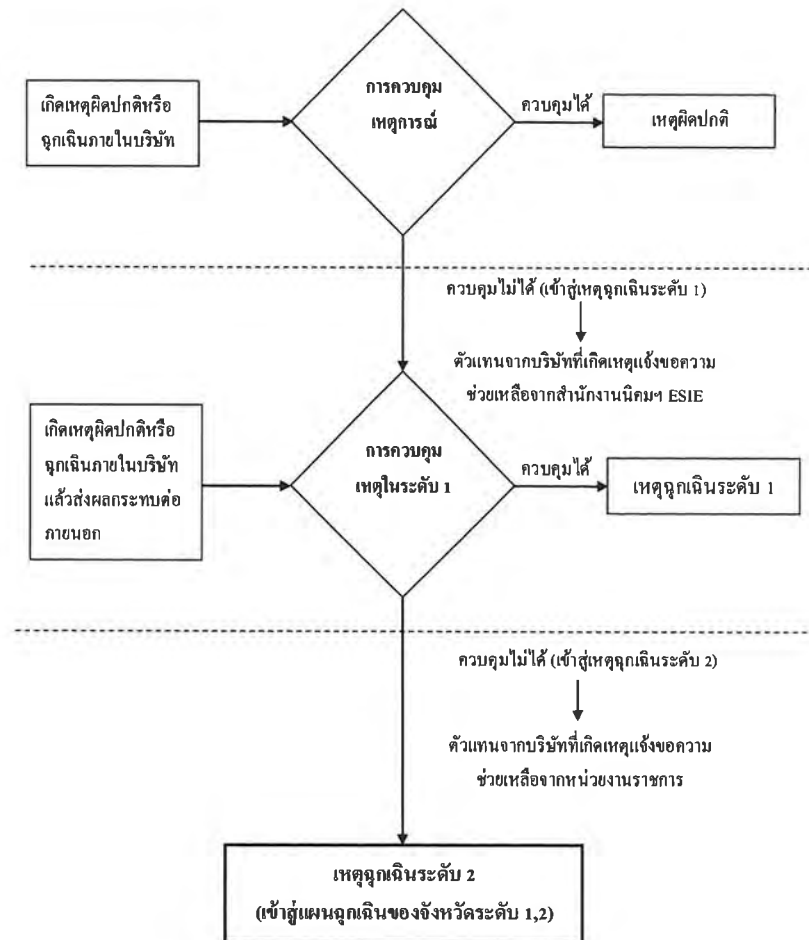
4.2.1 วิธีปฏิบัติกรณีเกิดน้ำท่วมภายในนิคมฯ

- 1) ให้ผู้พบเห็น หรือรับแจ้งเหตุแจ้งหน่วยงาน คับเพลิงและความปลอดภัย รับทราบทันที
- 2) ให้พนักงานผู้รับแจ้งเหตุปฏิบัติตามระเบียบการปฏิบัติงานการรับแจ้ง และรายงานเหตุฉุกเฉิน
- 3) ให้หัวหน้าส่วนดับเพลิงและความปลอดภัย และหัวหน้ากะดับเพลิง พร้อมเจ้าหน้าที่ส่วนงาน คับเพลิงและความปลอดภัย และเจ้าหน้าที่ รปภ. จัดเตรียมอุปกรณ์อำนวยความสะดวกด้านการจราจร และประสานงานกับเจ้าหน้าที่ตำรวจในการดูแลความสงบเรียบร้อยในพื้นที่เกิดเหตุ
- 4) ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วนงานผลิตน้ำประปา, หัวหน้างานส่วนงานซ่อมบำรุงทั่วไป และหัวหน้ากะดับเพลิงประเมินสถานการณ์ และหาทางระบายน้ำออกจากพื้นที่โดยเร็วที่สุด
- 5) ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วนงานผลิตน้ำประปา จัดเตรียมเครื่องสูบน้ำ และประสานงานกับผู้รับเหมาดูแลระบบระบายน้ำฝนเพื่อเปิดทางน้ำให้สามารถระบายได้เร็วขึ้น
- 6) หัวหน้าส่วนดับเพลิงและความปลอดภัย จัดเตรียมกระสอบทรายไว้สำหรับปิดกั้นทางน้ำ หรือเพื่อป้องกันพื้นที่บางส่วนที่ไม่สามารถให้น้ำท่วมถึงได้
- 7) ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วนงานผลิตน้ำประปา ประสานงานกับโรงงานผู้ประกอบการว่ามีที่ใดต้องการความช่วยเหลือ เช่น อพยพ, รถพยาบาล, เครื่องสูบน้ำ, กระสอบทราย



- 8) เมื่อน้ำแห้งให้ หัวหน้างานส่วนงานซ่อมบำรุงทั่วไป ประสานงานกับผู้รับเหมาดูแลความสะอาด ทำความสะอาดพื้นที่ที่เกิดเหตุทันที

- 9) ทำการฟื้นฟูพื้นที่ที่เกิดเหตุให้กลับเข้าสู่สภาพปกติโดยเร็วที่สุด (ตามแผนฟื้นฟู)
แผนผังการจักระดับเหตุฉุกเฉินของนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)





4.3 กรณีเกิดการชุมนุมประท้วง

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) กำหนดให้มีการจัดระดับภาวะฉุกเฉินไว้ 3 ระดับ ดังนี้

- 1) เหตุผิดปกติ: เป็นการชุมนุมประท้วง ภายในโรงงานอุตสาหกรรม/สถานประกอบการ ซึ่งเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ สามารถควบคุมสถานการณ์และสามารถเจรจา หรือระงับการชุมนุมประท้วงและการจลาจล ได้
- 2) ภาวะฉุกเฉินระดับ 1 (ระดับท้องถิ่น) : เป็นการชุมนุมประท้วงและการจลาจล ที่มีสถานการณ์เกินขีดความสามารถของเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ หรือของนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ไม่เพียงพอจำเป็นต้องร้องขอการสนับสนุนจากหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่น (เทศบาล/อบต.)
- 3) ภาวะฉุกเฉินระดับ 2 (ระดับจังหวัด) : เป็นการชุมนุมประท้วงและการจลาจล ที่มีสถานการณ์ขยายตัวลุกลาม จนเกินขีดความสามารถของกองอำนาจการป้องกันภัยและบรรเทาสาธารณภัยองค์กรปกครองส่วนท้องถิ่นแห่งพื้นที่ (เทศบาลปลวกแดง, องค์การบริหารส่วนตำบลปลวกแดง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยอำเภอ (อำเภอปลวกแดง) ไม่สามารถระงับภัยและควบคุมสถานการณ์ได้ จะต้องขอความช่วยเหลือจาก กองอำนาจการป้องกันภัยและบรรเทาสาธารณภัยจังหวัด (จังหวัดระยองและจังหวัดใกล้เคียง) รวมทั้งหน่วยสนับสนุนจากหน่วยงานภายนอกระดับอื่น ๆ ฯลฯ

4.3.1 วิธีปฏิบัติงานในกรณีเกิดเหตุชุมนุมประท้วง

- 1) ให้ผู้พบเห็นหรือได้รับแจ้งจากโรงงานผู้ประกอบการภายในนิคมฯ ว่ามีเหตุชุมนุมประท้วงหน้าบริษัท
- 2) ให้พนักงานผู้รับแจ้งเหตุปฏิบัติตามระเบียบการปฏิบัติงานการรับแจ้ง และรายงานเหตุฉุกเฉิน (IEO-P-008 F1)
- 3) ให้ OMF และหัวหน้ากะดับเพลิง พร้อมทั้งเจ้าหน้าที่ส่วนงานดับเพลิงและความปลอดภัย และเจ้าหน้าที่ รปภ. จัดเตรียมอุปกรณ์อำนวยความสะดวกด้านการจราจร และประสานงานกับเจ้าหน้าที่ตำรวจเพื่อดูแลความสงบเรียบร้อยรอบๆ บริเวณที่มีการชุมนุมประท้วง
- 4) OMS, SHE, OMF ทำการเจรจากับแกนนำผู้ชุมนุมประท้วงเพื่อแจ้งให้ทราบถึงการห้ามทำการสิ่งใดสิ่งหนึ่งบนถนนที่อาจจะเป็นการกีดขวางการจราจรบนถนนรวมถึงการตั้งเต็นท์เพื่อบังแดดบังลม หรือเป็นที่พอกาพย์ชั่วคราว และแจ้งให้ EOD รับทราบถึงสถานการณ์
- 5) OMS, SHE, OMF ประสานงานกับ HR ของบริษัทที่ทำการชุมนุมประท้วงเรียกพนักงานที่ไม่มีส่วนเกี่ยวข้องกับการประท้วงกลับเข้าบริษัท เพื่อทำการจำแนกพนักงานกับกลุ่มที่มีใช้

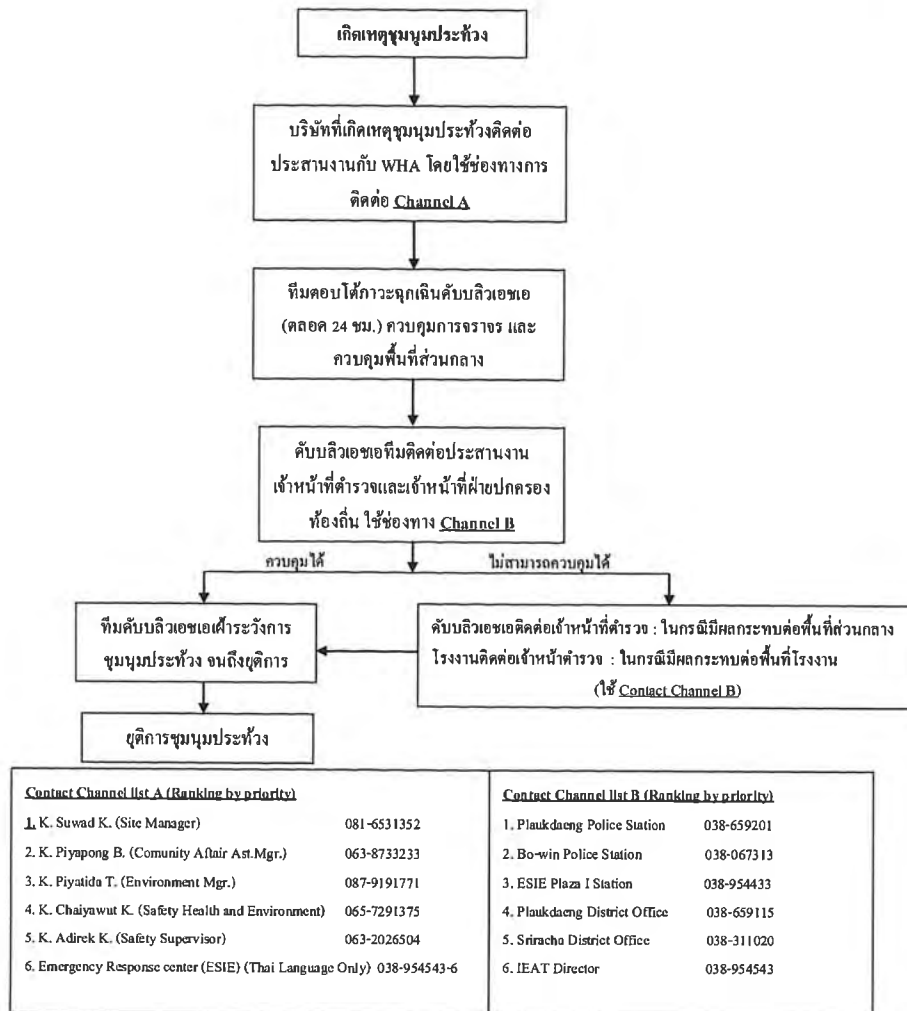


พนักงานของบริษัทให้ชัดเจน และแจ้งความคำเน้นคดีกับผู้ที่ไม่ปฏิบัติตามข้อ 4 หรือก่อเหตุความรุนแรงที่ทำให้เกิดความเสียหายต่อชีวิตและทรัพย์สินของนิคมฯ

- 6) OMS, SHE, OMF ประสานงานกับ HR ของบริษัทที่ทำการชุมนุมประท้วงในกรณีที่ต้องการความช่วยเหลือจากหน่วยงานราชการในกรณีที่เกิดความรุนแรงหรือไม่ได้รับความปลอดภัยที่อาจเกิดขึ้นโดยการกระทำของผู้ชุมนุมประท้วง โดยให้ HR หรือผู้ที่ได้รับมอบหมายจากบริษัททำการแจ้งความกับเจ้าหน้าที่ตำรวจเพื่อดำเนินคดีกับผู้ชุมนุมประท้วง
- 7) OMF, หัวหน้ากะดับเพลิง และสายตรวจนิคมฯ จะต้องคอยสอดส่องดูแลความสงบเรียบร้อยร่วมกับเจ้าหน้าที่ตำรวจที่ประจำอยู่บริเวณรอบๆ บริษัทที่มีการชุมนุมประท้วง
- 8) OMS, SHE, OMF ประสานงานกับ HR และแกนนำของผู้ชุมนุมประท้วง ของบริษัทที่ทำการชุมนุมประท้วงเพื่อขอทราบความคืบหน้าทั้งภายในและภายนอกบริษัทเพื่อรายงานให้ VP และผู้ที่เกี่ยวข้องรับทราบอย่างต่อเนื่อง
- 9) เมื่อทั้งสองฝ่ายบรรลุข้อตกลง และเข้าเหตุการณ์เข้าสู่ภาวะปกติ OMF หัวหน้ากะดับเพลิง จะต้องตรวจสอบความเสียหายที่เกิดขึ้นกับพื้นที่ ที่เป็นส่วนกลางแล้วรายงานให้ผู้ที่เกี่ยวข้องรับทราบและดำเนินการปรับปรุงแก้ไขให้อยู่ในสภาพเดิม



แผนผังการตอบโต้ภาวะฉุกเฉินกรณีเกิดการชุมนุมประท้วงของพนักงานบริษัทภายในนิคมฯ



5. การป้องกันและควบคุมภัยจากโรคติดต่อและโรคระบาด

กระบวนการปฏิบัติงานตามแผนป้องกันและควบคุมโรคติดต่อหรือโรคระบาด แบ่งเป็น 3 ระยะ คือ

5.1 การปฏิบัติก่อนเกิดโรคติดต่อหรือโรคระบาด ให้ดำเนินการต่างๆ เพื่อป้องกันและเตรียมการเผชิญเหตุการณ์โรคติดต่อหรือโรคระบาดไว้ล่วงหน้าโดยกำหนดให้มีมาตรการทางการตรวจสอบ อาทิ

- เตรียมความพร้อมด้านบุคลากร, เครื่องมือที่จำเป็นต่อการควบคุมโรคระบาดหรือโรคติดต่อ
- ติดตามข่าวสารเกี่ยวกับโรคติดต่อและโรคระบาดทั้งในประเทศและต่างประเทศ
- ประเมินความเสี่ยงของการเกิดโรคติดต่อหรือโรคระบาด พร้อมทั้งกำหนดแนวทางการป้องกันและแก้ไข
- การตรวจสอบพื้นที่จุดเสี่ยงต่างๆ ในนิคมฯ
- อุปกรณ์สื่อสารของนิคมฯ ให้พร้อมใช้งานตลอดเวลา

5.2 การปฏิบัติระหว่างโรคติดต่อหรือโรคระบาด เพื่อให้การปฏิบัติเมื่อเกิดภัยเป็นไปอย่างมีประสิทธิภาพและประสิทธิผล ให้กำหนดแนวปฏิบัติระหว่างเกิดโรคติดต่อหรือโรคระบาด ตามแนวปฏิบัติของกระทรวงสาธารณสุข โดยมีแนวทางดังนี้

- จัดให้มีการทำความสะอาดสถานที่ทำงานอย่างสม่ำเสมอและถูกสุขอนามัย โดยเฉพาะในบริเวณพื้นที่ที่มีการสัมผัส เช่น ที่จับประตู, ลูกบิด, โต๊ะ, เก้าอี้, รวมถึงอุปกรณ์ต่างๆ เช่น โทรศัพท์, คีย์บอร์ด ด้วยความขยันหมั่นเพียรอย่างสม่ำเสมอ
- ส่งเสริมให้พนักงานหรือผู้มาติดต่อ ล้างทำความสะอาดมืออย่างสม่ำเสมอ โดยจัดหาสบู่หรือเจลล้างมือวางไว้ในสถานที่ทำงานอย่างเพียงพอและประชาสัมพันธ์ให้ทำการล้างมือสม่ำเสมอ
- ส่งเสริมให้พนักงานหรือผู้มาติดต่อมีการป้องกันสุขอนามัยทางระบบทางเดินหายใจ โดยจัดหาหน้ากากอนามัยไว้ให้ได้อย่างเพียงพอและประชาสัมพันธ์ให้มีการสวมใส่
- จัดบุคลากรและเครื่องมือ ทำการคัดกรองพนักงานและผู้มาติดต่อ ด้านหน้าสำนักงาน ก่อนเข้าอาคารสำนักงานตลอดเวลา (ตามแผนผัง การคัดกรอง โรคติดต่อและโรคระบาดและกรอกแบบฟอร์ม สำหรับผู้มาติดต่อ)
- หากพบพนักงาน/ผู้มาติดต่อที่เข้าข่ายและความเสี่ยงต่อการติดเชื้อ (ตามนิยามของกระทรวงสาธารณสุข) ให้ทำการแจ้งหน่วย หัวหน้างาน/HRM รับทราบทันที และ หัวหน้างาน/HRM สอบถามรายละเอียดตามแบบสอบถามมาตรฐาน และให้ไปพบแพทย์ในสถานพยาบาลทันที พร้อมติดตามผลเป็นระยะๆ และแจ้งให้พนักงาน/ผู้มาติดต่อปฏิบัติตามคำแนะนำของกระทรวงสาธารณสุขอย่างเคร่งครัด
- ปิดกั้นสำนักงานและจัดทีมเข้าฉีดพ่นยาฆ่าเชื้อทันที



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



5.3 การปฏิบัติหลังเกิดโรคติดต่อหรือโรคระบาด เป็นการดำเนินการต่างๆ เพื่อสำรวจรวบรวมข้อมูล ความเสียหายที่เกิดขึ้นและฟื้นฟู/ปรับปรุง/แก้ไขพื้นที่ที่ได้รับผลกระทบให้กลับคืนสู่สภาพเดิมหรือ ดีกว่าเดิมโดยเร็ว ที่สุด

6. แนวทางการสื่อสาร (Communication) กำหนดให้มีการสื่อสารตามรูปแบบ ช่องทางและคลื่นความถี่ วิทยุสื่อสารสำหรับกรณีเกิดเหตุการณ์ผิดปกติ การระงับเหตุฉุกเฉิน ดังนี้

6.1 การแจ้งเหตุจากบริษัทที่เกิดเหตุ

เมื่อมีเหตุผิดปกติหรือเหตุฉุกเฉินที่อาจส่งผลกระทบต่อหน่วยงานภายนอกและสิ่งแวดล้อม ให้ บริษัทหรือหน่วยงานที่เกิดเหตุแจ้งหน่วยงานที่เกี่ยวข้องตามที่ระบุไว้ในแผนปฏิบัติการภาวะ ฉุกเฉินนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) ดังนี้

ทันทีที่เกิดเหตุการณ์ผิดปกติหรือเหตุฉุกเฉินให้แจ้ง ศูนย์ควบคุมภาวะฉุกเฉินนิคมอุตสาหกรรมอีส เทิร์นซีบอร์ด (ระยอง) เพื่อทราบทันที หรือแจ้งขอความช่วยเหลือทางหมายเลขโทรศัพท์ 038- 954543 หรือทางวิทยุสื่อสาร Citizens band (CB) ช่อง 22 หรือคลื่นความถี่ 245.2625 MHz

1) แจ้งบริษัทข้างเคียง ที่อาจได้รับผลกระทบจากการเกิดเหตุการณ์ผิดปกติหรือเหตุฉุกเฉิน ตามลำดับความสำคัญ

2) แจ้งงานป้องกันบรรเทาสาธารณภัยอำเภอลวกแดง เช่น อบ.ต. ลวกแดง, เทศบาลลวกแดง เป็นต้น

3) แจ้งโรงพยาบาลท้องถิ่นที่อยู่ใกล้กับบริษัทที่เกิดเหตุ

6.2 การแจ้งกรณีที่มีการอพยพออกนอกบริษัท

1) ให้บริษัทที่เกิดเหตุหรือบริษัทที่ได้รับผลกระทบที่จำเป็นต้องอพยพขอให้ปฏิบัติตามดังนี้

2) กรณีทำการอพยพได้เอง ขอให้บริษัทแจ้งมายังศูนย์ควบคุมภาวะฉุกเฉินนิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) เพื่อรับทราบสถานการณ์

3) กรณีที่ร้องขอความช่วยเหลือในการดำเนินการอพยพ ให้แจ้งขอความช่วยเหลือที่ ศูนย์ ควบคุมภาวะฉุกเฉินนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง) เพื่อประสานงานดำเนินการ ช่วยเหลือการอพยพของพนักงานบริษัทที่เกิดเหตุหรือบริษัทที่ได้รับผลกระทบจากเหตุการณ์ ผิดปกติหรือเหตุฉุกเฉิน

6.3 กรณีที่มีการซ่อมแผนฉุกเฉิน

ให้บริษัทที่จะทำการซ่อมแผนฉุกเฉินทำหนังสือแจ้งที่สำนักงานนิคมอุตสาหกรรมอีสเทิร์นซี บอร์ด (ระยอง) สำหรับการประสานงาน และแจ้งบริษัทข้างเคียงเพื่อรับทราบ



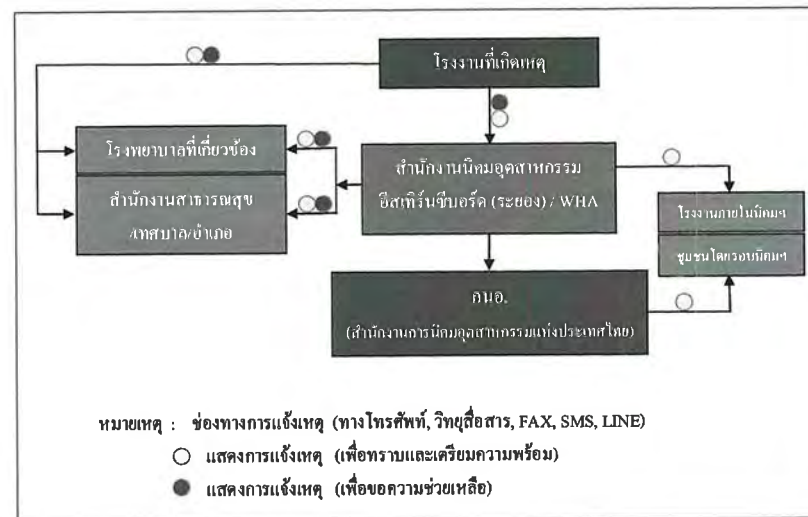
แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



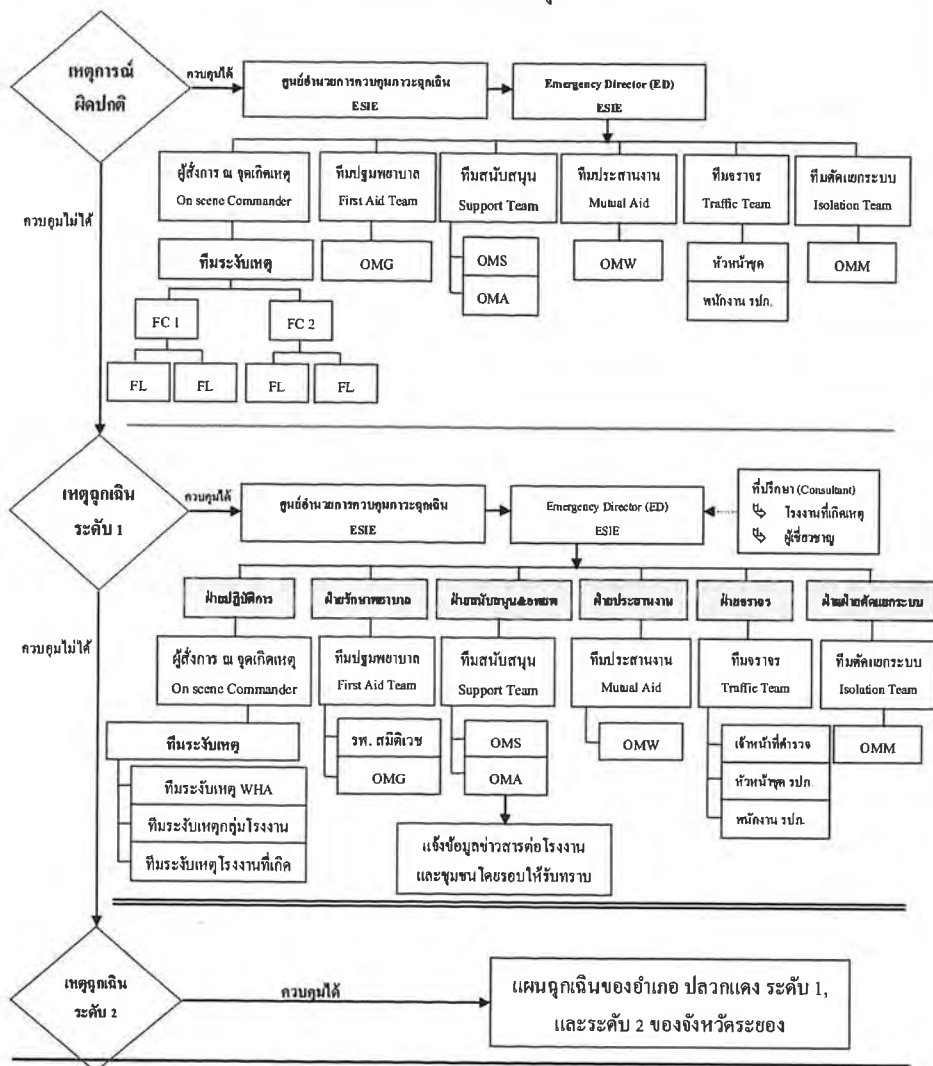
แผนผังการสื่อสารและประสานงานในพื้นที่นิคมอุตสาหกรรม อีสเทิร์นซีบอร์ด (ระยอง) (กรณีโรคติดต่อหรือโรคระบาด)



7. โครงสร้างองค์กรตอบโต้ภาวะฉุกเฉิน

เพื่อให้การตอบโต้ภาวะฉุกเฉินเป็นไปอย่างต่อเนื่องและมีประสิทธิภาพ จึงได้กำหนดตำแหน่งและหน้าที่รับผิดชอบการตอบโต้ภาวะฉุกเฉิน ดังนี้

แผนผังการตอบโต้ภาวะฉุกเฉิน



8. ผู้ที่ดำรงตำแหน่งและหน้าที่ในแผนฉุกเฉิน

ตำแหน่ง : ผู้อำนวยการควบคุมภาวะฉุกเฉิน Emergency Director (ED)

หน้าที่ : เป็นผู้สั่งการสูงสุดของศูนย์ควบคุมภาวะฉุกเฉิน

ผู้ทำหน้าที :

แผนฉุกเฉิน		
เหตุฉุกเฉิน ผู้ทำหน้าที่ ED	ระดับ 1 ผู้ทำหน้าที่ ED	ระดับ 2 ผู้ทำหน้าที่ ED
1. ผู้อำนวยการนิคมอุตสาหกรรม	ในแผนฉุกเฉินของ อำเภอ	ในแผนฉุกเฉินของจังหวัด
2. ผู้อำนวยการปฏิบัติการฯ	ปลัดแขวง	ระยอง
3. ผู้จัดการฝ่ายความปลอดภัยและสิ่งแวดล้อม		
4. ผู้จัดการบริษัทหรือโรงงานที่เกิดเหตุ		

หน้าที่ในภาวะฉุกเฉิน

ในภาวะปกติ

- ๕ กำหนดนโยบายด้านความปลอดภัยและ การควบคุมภาวะฉุกเฉิน
- ๕ จัดตั้งองค์กรตอบโต้ภาวะฉุกเฉินได้อย่างมีประสิทธิภาพ
- ๕ จัดให้มีการฝึกซ้อมตามแผนควบคุมภาวะฉุกเฉินอย่างน้อยปีละ 2 ครั้ง
- ๕ จัดให้มีการ Audit ความพร้อมตามระเบียบการปฏิบัติการควบคุมภาวะฉุกเฉินอย่างน้อย ปีละ 2 ครั้ง

ในภาวะฉุกเฉิน

- ให้ผู้มีรายชื่อตามลำดับขั้นต้นเป็นผู้ดำรงตำแหน่งจนกว่าผู้ที่มิรายชื่อลำดับขั้นต่อไปจะมาถึง
- ประสานงานกับเจ้าหน้าที่ราชการที่เกี่ยวข้อง
- กรณีเหตุฉุกเฉิน ให้กลับเข้าสู่ศูนย์ควบคุมภาวะฉุกเฉิน (ESIE) ทันทีที่ได้รับแจ้งเหตุ
- ประสานงานกับ OC พิจารณาการประกาศ “ภาวะฉุกเฉิน” โดยแจ้งผู้เกี่ยวข้องและขอความช่วยเหลือจากภายนอกทันที หากพิจารณาว่ากำลังพลและเครื่องมืออุปกรณ์ที่มีอยู่ไม่สามารถควบคุมได้
- เมื่อประกาศภาวะฉุกเฉินแล้ว พิจารณาอพยพพนักงานที่ประจำอยู่ที่จุดเกิดเหตุให้ไปยังจุดรวมพลที่ปลอดภัยที่สุดโดยมีจุดรวมพลดังนี้
- จุดรวมพลที่ 1 ที่นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)
- จุดรวมพลที่ 2 ที่ ESIE PLAZA 1
- จุดรวมพลที่ 3 ที่ ESIE PLAZA 2
- อำนาจการตอบโต้ภาวะฉุกเฉินที่ ศูนย์ควบคุมภาวะฉุกเฉิน ทำหน้าที่เป็น ED โดยทำหน้าที่ควบคุมการตรวจสอบ และสนับสนุนการทำงานของทีมควบคุมภาวะฉุกเฉิน หากพบว่ามีกำลัง



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



การผิดพลาด หรือเสี่ยงต่อความปลอดภัยของพนักงาน หรืออาจทำให้เกิดการขยายตัวของเหตุการณ์ ต้องทำการยับยั้ง และหากพิจารณาแล้วว่าหัวหน้าทีมช่วยเหลือสิ่งการได้ถูกต้องให้ดำเนินการสนับสนุนทั้งทางด้านกำลังคน วัสดุอุปกรณ์ และปัจจัยสำคัญอื่นๆ โดยพิจารณาถึงปัจจัย 2 ประการดังนี้

1. สร้างความปลอดภัยให้กับบุคคลในนิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)
 - ป้องกันและช่วยชีวิตพนักงาน
 - เคลื่อนย้ายผู้บาดเจ็บไปในพื้นที่ปลอดภัย
 - ตรวจสอบจำนวนพนักงานและค้นหาส่วนที่หายไป
 2. การตอบโต้ภาวะฉุกเฉินและดับเพลิง
 - ลดความรุนแรงของเหตุการณ์โดยให้เกิดความสูญเสียน้อยที่สุด
 - รักษาอุปกรณ์ที่อยู่ใกล้จุดเกิดเหตุไม่ให้เกิดความเสียหายหรือให้เสียหายน้อยที่สุด
 - ควบคุมไม่ให้มีการทำลายสภาพแวดล้อม
 - ประเมินสถานการณ์แล้วรายงานต่อผู้บังคับบัญชาระดับสูงขึ้น ไปทราบ
 - ให้การสนับสนุนการทำงานที่ตอบโต้ภาวะฉุกเฉิน
- เมื่อเหตุการณ์สงบ พิจารณายกเลิกภาวะฉุกเฉิน โดยประสานงานกับ On Scene Commander (OC)

ภายหลังภาวะฉุกเฉิน

- ☞ รายงานผู้บริหารระดับสูงตามสายการบังคับบัญชา
- ☞ สอบสวนหาสาเหตุของการเกิดเหตุ
- ☞ ตรวจสอบข้อเท็จจริงของเหตุการณ์
- ☞ ประสานงานกับเจ้าหน้าที่ทางราชการและหน่วยงานที่เกี่ยวข้อง
- ☞ ทบทวนติดตามแผนงานกิจกรรมการส่งเสริมความปลอดภัย การป้องกันอุบัติเหตุ
- ☞ ออกเยี่ยมเยียนดูแลผู้ที่ได้รับความเสียหายจากเหตุการณ์เท่าที่เหมาะสม
- อำนาจการฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



ตำแหน่ง : ผู้สั่งการ ณ จุดเกิดเหตุ On Scene Commander (OC)

หน้าที่ : ควบคุมสถานการณ์และสั่งการบริเวณที่เกิดเหตุ

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ OC	ระดับ 1 ผู้ทำหน้าที่ OC	ระดับ 2 ผู้ทำหน้าที่ OC
1. ผู้จัดการฝ่ายความปลอดภัยและสิ่งแวดล้อม	ในแผนฉุกเฉินของ อำเภอ	ในแผนฉุกเฉินของจังหวัด
2. หัวหน้าส่วนความปลอดภัยและดับเพลิง	ปลวกแดง	ระยอง
3. หัวหน้ากะความปลอดภัย		
4. OC. ของบริษัท, โรงงานที่เกิดเหตุ		

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ☞ ปฏิบัติตามกฎหมายระเบียบด้านความปลอดภัยและสิ่งแวดล้อม
- ☞ ตรวจสอบทดสอบระบบแจ้งเหตุ อุปกรณ์ดับเพลิงและอุปกรณ์ฉุกเฉินให้พร้อมใช้งาน
- ☞ ประสานงานการจัดหา และเตรียมความพร้อมของเครื่องมือ อุปกรณ์ สิ่งอำนวยความสะดวกต่างๆ ที่ใช้ในการควบคุมภาวะฉุกเฉิน
- ☞ จัดให้มีการฝึกซ้อมปฏิบัติการตามแผนฉุกเฉินภายในพื้นที่
- ☞ อบรมฝึกสอนเจ้าหน้าที่ให้มีความเข้าใจ ความชำนาญในการควบคุมเหตุฉุกเฉิน ตรวจสอบระบบน้ำดับเพลิงให้พร้อมใช้งาน และตรวจสอบอุปกรณ์ควบคุมสารเคมีรั่วไหล

ในภาวะฉุกเฉิน

- ☞ เมื่อมาถึงจุดเกิดเหตุ ให้ติดต่อรายตัวกับ ED ที่ศูนย์ควบคุมภาวะฉุกเฉิน
- ☞ การดำรงตำแหน่ง OC ให้เป็นไปตามลำดับในรายชื่อตามแผนฉุกเฉิน
- ☞ กรณีผู้ที่มีลำดับสูงสุดไม่อยู่ในพื้นที่ปฏิบัติงานหรือเดินทางมายังไม่ถึง ให้ผู้ที่มีรายชื่อตามลำดับแผนฉุกเฉินลงมา / ผู้ที่มีรายชื่ออยู่ในที่เกิดเหตุ / มาถึงจุดเกิดเหตุก่อนให้ทำหน้าที่ OC ก่อนจนกว่าผู้ที่มีรายชื่อในลำดับต้นมาถึง
- ☞ เมื่อมาถึงจุดเกิดเหตุ ให้ประเมินสถานการณ์ เพื่อพิจารณาว่าเหตุการณ์มีแนวโน้มลุกลามขยายตัวไม่สามารถควบคุมได้ ให้รายงานตรงต่อ ED เพื่อพิจารณา “ประกาศภาวะฉุกเฉิน”
- ☞ ดำเนินการให้ทีมตอบโต้ภาวะฉุกเฉินทำการตอบโต้ภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และควบคุมการใช้อุปกรณ์ควบคุมภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และปลอดภัยมากที่สุด
- ☞ สั่งการควบคุมเพลิง หรือสารเคมีรั่วไหลในเบื้องต้น เพื่อควบคุมให้อยู่ในพื้นที่ที่จำกัด



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ๕ ประสานกับ ED เพื่อพิจารณาตัดสินใจสั่งหยุดการผลิตในโรงงานเพื่อป้องกันการลุกลาม

ภายหลังภาวะฉุกเฉิน

- ๕ สำรวจความเสียหายของพื้นที่ อุปกรณ์ ดำเนินการจัดหามาทดแทน
- ๕ ร่วมสอบสวนหาสาเหตุของเหตุฉุกเฉิน
- ๕ ร่วมกับ ED อำนาจการฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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ตำแหน่ง : ผู้ควบคุมทีมระงับเหตุฉุกเฉิน Fire Chief (FC)

หน้าที่ : ควบคุมทีมตอบโต้และระงับเหตุฉุกเฉิน

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ FC	ระดับ 1 ผู้ทำหน้าที่ FC	ระดับ 2 ผู้ทำหน้าที่ FC
1. หัวหน้าส่วนความปลอดภัยและดับเพลิง	ในแผนฉุกเฉินของ อำเภอ	ในแผนฉุกเฉินของ จังหวัด
2. หัวหน้ากะความปลอดภัย	ปลวกแดง	ระยอง
3. FC. ของบริษัท, โรงงานที่เกิดเหตุ		

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ๕ ปฏิบัติตามกฎระเบียบด้านความปลอดภัยและสิ่งแวดล้อม
- ๕ ตรวจสอบทดสอบระบบแจ้งเหตุ อุปกรณ์ดับเพลิงและอุปกรณ์ฉุกเฉินให้พร้อมใช้งาน
- ๕ ประสานงานการจัดหา และเตรียมความพร้อมของเครื่องมือ อุปกรณ์ สิ่งอำนวยความสะดวกต่างๆ ที่ใช้ในการควบคุมภาวะฉุกเฉิน
- ๕ จัดให้มีการฝึกซ้อมปฏิบัติตามแผนฉุกเฉินภายในพื้นที่
- ๕ อบรมฝึกสอนเจ้าหน้าที่ให้มีความเข้าใจ ความชำนาญในการควบคุมเหตุฉุกเฉิน ตรวจสอบระบบน้ำดับเพลิงให้พร้อมใช้งาน และตรวจสอบอุปกรณ์ควบคุมสารเคมีรั่วไหล

ในภาวะฉุกเฉิน

- ๕ เมื่อเกิดเหตุ ให้จัดทีมออกตอบโต้ภาวะฉุกเฉินและประสานงานกับ OC หรือเจ้าของพื้นที่เพื่อทำการควบคุมภาวะฉุกเฉิน
- ๕ การดำรงตำแหน่ง FC ให้เป็นไปตามลำดับในรายชื่อตามแผนฉุกเฉิน



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ๕ รายงานสถานการณ์ให้กับ OC รับทราบ เพื่อให้ OC และ ED พิจารณาเลือกวิธีการควบคุมภาวะฉุกเฉิน
- ๕ ปฏิบัติตามคำแนะนำของ OC และเลือกวิธีการควบคุมภาวะฉุกเฉิน
- ๕ ควบคุมทีมตอบโต้ภาวะฉุกเฉินทำการตอบโต้ภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และควบคุมการใช้อุปกรณ์ควบคุมภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และปลอดภัยมากที่สุด
- ๕ ควบคุมเพลิง หรือสารเคมีรั่วไหลในเบื้องต้น เพื่อควบคุมให้อยู่ในพื้นที่ที่จำกัด
- ๕ หากพิจารณาแล้ววิธีการที่กำลังดำเนินการอยู่ไม่สามารถควบคุมสถานการณ์ไว้ได้ หรือกำลังคน/เครื่องมืออุปกรณ์หรือทรัพยากรอื่นๆ ไม่เพียงพอต่อการระงับเหตุ ให้รับรายงาน OC เพื่อพิจารณาหาวิธีการใหม่หรือจัดเตรียมสิ่งที่ขาดหรือไม่เพียงพอให้โดยทันที
- ๕ ประสานกับ OC เพื่อพิจารณาตัดสินใจสั่งหยุดการผลิตในโรงงานเพื่อป้องกันการลุกลาม

ภายหลังภาวะฉุกเฉิน

- ๕ สำรวจความเสียหายของพื้นที่ อุปกรณ์ ดำเนินการจัดหามาทดแทน
- ๕ ร่วมสอบสวนหาสาเหตุของเหตุฉุกเฉิน
- ๕ ร่วมกับ ED อำนาจการฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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ตำแหน่ง : ทีมตอบโต้ภาวะฉุกเฉินหรือทีมระงับเหตุฉุกเฉิน (Emergency Respond Team) ERT

หน้าที่ : ทีมตอบโต้ภาวะฉุกเฉินหรือทีมระงับเหตุฉุกเฉิน

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ ERT	ระดับ 1 ผู้ทำหน้าที่ ERT	ระดับ 2 ผู้ทำหน้าที่ ERT
1. หัวหน้ากะความปลอดภัย	ในแผนฉุกเฉินของ อำเภอ	ในแผนฉุกเฉินของ จังหวัดระยอง
2. พนักงานความปลอดภัยและดับเพลิง	ปลวกแดง	
3. ERT ของบริษัท หรือ โรงงานที่เกิดเหตุ		

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ๕ ปฏิบัติตามกฎระเบียบด้านความปลอดภัยและสิ่งแวดล้อม
- ๕ ตรวจสอบทดสอบระบบแจ้งเหตุ อุปกรณ์ดับเพลิงและอุปกรณ์ฉุกเฉินให้พร้อมใช้งาน



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ๕ ประสานงานการจัดหา และเตรียมความพร้อมของเครื่องมือ อุปกรณ์ สิ่งอำนวยความสะดวกต่างๆ ที่ใช้ในการควบคุมภาวะฉุกเฉิน
- ๕ ร่วมทำการฝึกซ้อมปฏิบัติการตามแผนฉุกเฉินภายในพื้นที่
- ๕ ฝึกอบรมทำความเข้าใจ ให้เกิดความชำนาญในการควบคุมเหตุฉุกเฉิน ตรวจสอบระบบน้ำดับเพลิงให้พร้อมใช้งาน และตรวจสอบอุปกรณ์ควบคุมสารเคมีรั่วไหล

ในภาวะฉุกเฉิน

- ๕ เมื่อเกิดเหตุฉุกเฉิน ให้ออกตอบโต้ภาวะฉุกเฉิน ภายใต้การควบคุมของ Fire Chief หรือ OC เพื่อทำการควบคุมภาวะฉุกเฉิน
- ๕ ปฏิบัติตามคำแนะนำของ Fire Chief หรือ OC และเลือกวิธีการควบคุมภาวะฉุกเฉิน
- ๕ ควบคุมและตอบโต้ภาวะฉุกเฉินให้เป็นไปอย่างมีประสิทธิภาพมากที่สุด และควบคุมการใช้ อุปกรณ์ควบคุมภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และปลอดภัยมากที่สุด
- ๕ ควบคุมเพลิง หรือสารเคมีรั่วไหลในเบื้องต้น เพื่อควบคุมให้อยู่ในพื้นที่ที่จำกัด
- ๕ หากไม่สามารถควบคุมได้ให้แจ้ง Fire Chief เพื่อประสานกับ OC พิจารณาตัดสินใจสั่งหยุดการผลิตในโรงงานเพื่อป้องกันการลุกลาม
- ๕ ERT ที่หุ้ดกะ หรือพักกะ เมื่อเกิดเหตุฉุกเฉินให้มารายงานตัวต่อ ผู้ที่ทำหน้าที่ OC ทันทีที่ได้รับ การร้องขอ

ภายหลังภาวะฉุกเฉิน

- ๕ สืบหาสาเหตุของพื้นที่ อุปกรณ์ ดำเนินการจัดหามาทดแทน
- ๕ ร่วมสอบสวนหาสาเหตุของเหตุฉุกเฉิน
- ๕ ร่วมกับ ED อำนาจการฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ตำแหน่ง : หัวหน้าทีมปฐมพยาบาล First Aid team (FT)
- : ผู้ช่วยทีมปฐมพยาบาล
- หน้าที่ : ควบคุมทีมพยาบาล
- ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ FT	ระดับ 1 ผู้ทำหน้าที่ FT	ระดับ 2 ผู้ทำหน้าที่ FT
1. รพ. ปลายทาง	ในแผนฉุกเฉินของ อำเภอ ปลายทาง	ในแผนฉุกเฉินของ จังหวัด ระยอง
2. รพ. สมิติเวช		
3. OMG (หัวหน้าส่วนซ่อมบำรุงทั่วไป)		

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ๕ ศึกษาวิธีการปฐมพยาบาล และการเคลื่อนย้ายผู้บาดเจ็บและตรวจสอบอุปกรณ์ปฐมพยาบาลให้อยู่ในสภาพที่พร้อมใช้งาน
- ๕ ฝึกการปฐมพยาบาล และวิธีการเคลื่อนย้ายผู้บาดเจ็บ
- ๕ ร่วมฝึกซ้อมเหตุฉุกเฉินอย่างสม่ำเสมอ

ในภาวะฉุกเฉิน

- ๕ เมื่อได้รับแจ้งเหตุประกาศ "ภาวะฉุกเฉิน" ให้ไปรายงานตัวต่อ ED ที่ศูนย์ควบคุมภาวะฉุกเฉิน
- ๕ กรณีผู้ที่มีลำดับสูงสุดไม่อยู่ในพื้นที่ปฏิบัติงานหรือเดินทางมายังไม่ถึง ให้ผู้ที่มีรายชื่อตามลำดับแผนฉุกเฉินลงมา / ผู้ที่มีรายชื่ออยู่ในที่เกิดเหตุ / มาถึงจุดประจำการก่อนให้ทำหน้าที่หัวหน้าทีมปฐมพยาบาล แล้วติดต่อแจ้งรายงานตัวกับ OC ก่อนจนกว่าผู้ที่มีรายชื่อในลำดับถัดมาถึง
- ๕ มีหน้าที่ควบคุมทีม FT ประสานงานและรายงานตรงต่อ ED
- ๕ รับผิดชอบความพร้อมของอุปกรณ์ปฐมพยาบาล / อุปกรณ์เคลื่อนย้ายหรือช่วยเหลือผู้ป่วย / ผู้ที่ได้รับบาดเจ็บ
- ๕ บันทึกการเข้ารักษาพยาบาลและการส่งผู้ที่ได้รับบาดเจ็บต่อโรงพยาบาล
- ๕ จัดเตรียมยานพาหนะในการเคลื่อนย้ายผู้ป่วยหรือผู้ที่ได้รับบาดเจ็บจากจุดรับ - ส่งผู้บาดเจ็บในโรงงานเพื่อส่งเข้าสถานพยาบาล
- ๕ รับผิดชอบเตรียมส่งทีมสำหรับช่วยเหลือผู้ป่วยหรือผู้ที่ได้รับบาดเจ็บ
- ๕ รายงานชื่อ อากา ของผู้ที่ได้รับบาดเจ็บและโรงพยาบาลที่นำส่งและผู้ส่งการทีมสนับสนุน
- ๕ รายงานเหตุการณ์ต่อผู้ควบคุมภาวะฉุกเฉิน (ED) เป็นระยะ



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



ภายหลังภาวะฉุกเฉิน

- ☞ ตรวจสอบสภาพอุปกรณ์ เครื่องมือ ภายหลังการใช้งาน
- ☞ เมื่อเหตุการณ์สงบมีหน้าที่สรุปผลการบาดเจ็บ, จำนวนและจัดส่งผู้บาดเจ็บออกภายนอกเพื่อรายงานต่อ ED

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ตำแหน่ง : ผู้สังการทีมสนับสนุน (Supporting & Evacuating Team)

หน้าที่ : ควบคุมทีมสนับสนุนและอพยพ

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ สนับสนุนและอพยพ	ระดับ 1 ผู้ทำหน้าที่สนับสนุนและอพยพ	ระดับ 2 ผู้ทำหน้าที่ สนับสนุนและอพยพ
1. OMS (ผู้จัดการฝ่ายปฏิบัติการ)	ในแผนฉุกเฉินของอำเภอ	ในแผนฉุกเฉินของจังหวัดระยอง
2. OMA (เจ้าหน้าที่ธุรการ)	ปลวกแดง	

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ☞ เสนอแต่งตั้ง “ผู้นำการอพยพ” และ “กำหนดจุดอพยพและตรวจสอบพื้นที่” ในแต่ละพื้นที่ตามความเหมาะสมอย่างเป็นทางการโดยกำหนดจุดรวมพลดังนี้
 - จุดรวมพลที่ 1 ที่นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)
 - จุดรวมพลที่ 2 ที่ ESIE PLAZA 1
 - จุดรวมพลที่ 3 ที่ ESIE PLAZA 2

- ☞ ซึ่งแจ้งทำความเข้าใจแก่ผู้ทำหน้าที่ในการอพยพ
- ☞ จัดเตรียมยานพาหนะสำหรับใช้งานในเหตุฉุกเฉิน

ในภาวะฉุกเฉิน

- ☞ เมื่อมีการประกาศ “ภาวะฉุกเฉิน และสั่งการอพยพพนักงาน” ไปยังจุดรวมพลเพื่อรับทราบรายงานจาก “ผู้นำการอพยพ” จากพื้นที่ต่างๆ
- ☞ ตรวจสอบและยืนยันจาก “ผู้นำอพยพ” ว่ามีผู้บาดเจ็บสูญหายอยู่ในพื้นที่เกิดเหตุ แล้วรายงาน “ผู้จัดการควบคุมภาวะฉุกเฉิน” หรือ “ผู้สังการควบคุมภาวะฉุกเฉิน” ทันที



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ☞ ซึ่งแจ้งแนะนำให้พนักงานอยู่ในความสงบ รอฟังคำสั่งของผู้บังคับบัญชาต่อไป รวมถึงแจ้งสถานการณ์เป็นระยะๆ เพื่อขวัญและกำลังใจ
- ☞ จัดเตรียมกำลังคนสนับสนุนการปฏิบัติงานด้านต่างๆ ตามการร้องขอ
- ☞ สนับสนุนยานพาหนะ, อาหาร, เครื่องดื่ม อุปกรณ์ที่จำเป็นในการตอบโต้ภาวะฉุกเฉิน
- ☞ แจ้งข้อมูลข่าวสารของเหตุการณ์ ความรุนแรง และอันตรายที่จะเกิดขึ้นให้โรงงาน ชุมชน ผู้นำชุมชนโดยรอบได้รับทราบ เพื่อป้องกันและเตรียมความพร้อมกรณีต้องทำการอพยพ

ภายหลังภาวะฉุกเฉิน

- ☞ ซึ่งแจ้งทำความเข้าใจกับพนักงานถึงเหตุการณ์ที่เกิดขึ้น หรือประสานงานกับทางฝ่ายบริหารเพื่อมาชี้แจงประสานงานกับหน่วยงานราชการ

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ตำแหน่ง : ผู้ประสานงาน Mutual Aid Coordinator Team (MC)

หน้าที่ : ทำหน้าที่ประสานงานกับหน่วยงานภายนอก

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่	ระดับ 1 ผู้ทำหน้าที่ MC	ระดับ 2 ผู้ทำหน้าที่ MC
1. OMW (หัวหน้าส่วนปฏิบัติการระบบน้ำประปา)	ในแผนฉุกเฉินของอำเภอปลวกแดง	ในแผนฉุกเฉินของจังหวัดระยอง

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ☞ ควบคุมให้มีการปฏิบัติตามกฎระเบียบด้านความปลอดภัย
- ☞ จัดเตรียมและจัดหาอุปกรณ์สื่อสารเช่น วิทยุ, โทรศัพท์ ให้เพียงพอและพร้อมใช้งาน
- ☞ จัดทำและปรับปรุงรายชื่อพร้อมเบอร์โทรศัพท์ของหน่วยงานต่างๆ ที่เกี่ยวข้องในการควบคุมเหตุฉุกเฉิน
- ☞ อบรมฝึกสอนเจ้าหน้าที่ในส่วนให้มีความเข้าใจ ความชำนาญในการสื่อสารและประสานงานในการควบคุมเหตุฉุกเฉิน

ในภาวะฉุกเฉิน

- ☞ รายงานตัวต่อผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED) ทราบ



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ๕ ประสานงาน แนะนำ ให้ข้อมูลต่างๆ กับผู้สั่งการ ณ จุดเกิดเหตุ On Scene Commander (OC), ผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED)
- ๕ ประสานงานกับหน่วยงานภายนอกในการขอความช่วยเหลือโดยรับคำสั่งจากผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED)

หลังภาวะฉุกเฉิน

- ๕ ร่วมสอบสวนหาสาเหตุของการเกิดเหตุ
- ๕ จัดเจ้าหน้าที่ควบคุมพื้นที่ (Stand by)

ตำแหน่ง : ทีมจราจร Traffic Team (TT)
หน้าที่ : จัดระเบียบและอำนวยความสะดวกด้านการจราจร
ผู้ทำหน้าที่ :

ผู้ทำหน้าที่ : แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ TT	ระดับ 1 ผู้ทำหน้าที่ ทีมTT	ระดับ 2 ผู้ทำหน้าที่ ทีมTT
1. เจ้าหน้าที่ตำรวจ	ในแผนฉุกเฉินของอำเภอปลวกแดง	ในแผนฉุกเฉินของจังหวัดระยอง
2. หัวหน้าชุดรักษาความปลอดภัย		
3. พนักงานรักษาความปลอดภัย		

หน้าที่ในภาวะฉุกเฉิน

ในภาวะปกติ

- ๕ จัดระบบการจราจร
- ๕ จัดระบบการรักษาความปลอดภัย
- ๕ ทดสอบวิทยุสื่อสารทั้งภายในหน่วยงานและนอกหน่วยงาน
- ๕ Up Date ข้อมูลการติดต่อสื่อสาร เช่น หมายเลข โทรศัพท์, และวิธีการติดต่อสื่อสารอื่นๆ
- ๕ ดูแลรักษาความปลอดภัยและจัดการจราจรภายในนิคมอุตสาหกรรม และจัดเตรียมวิทยุสื่อสารให้พร้อมใช้งานเสมอ
- ๕ จัดให้มีการฝึกซ้อมแผนควบคุมภาวะฉุกเฉินอยู่สม่ำเสมอ

ในภาวะฉุกเฉิน

- ๕ เมื่อได้รับแจ้งเหตุฉุกเฉินต่างๆ จากศูนย์ควบคุมภาวะฉุกเฉิน ESIE ให้ไปรายงานตัวต่อ ผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED) ในกรณีที่ปฏิบัติงานไม่ได้ให้ผู้ที่อยู่ลำดับต่อไปปฏิบัติหน้าที่แทน



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



- ๕ เมื่อเกิดเหตุฉุกเฉินให้เคลื่อนย้ายยานพาหนะที่กีดขวางเส้นทาง และปิดกั้นพื้นที่ห้ามบุคคลภายนอกเข้ามาภายใน
- ๕ แจ้งทีมช่วยเหลือจากภายนอกให้รอ จนท. ฝ่ายความปลอดภัย พาไปรายงานกับผู้สั่งการ ณ จุดเกิดเหตุ On Scene Commander (OC)
- ๕ ไม่ให้ข้อมูลใดๆ ต่อสื่อมวลชน
- ๕ กันผู้ที่ไม่เกี่ยวข้อง ไม่หน้าที่ในแผนฉุกเฉินให้ออกนอกนิคมฯ เช่นผู้รับเหมา ผู้มาติดต่อ

หลังภาวะฉุกเฉิน

- ๕ ดูแลรักษาทรัพย์สินของบริษัทฯ โดยปิดประตูอาคารต่างๆ ที่ไม่จำเป็นและจัดสายตรวจดูแลตลอดเวลา
- ๕ ปิดกั้นพื้นที่เกิดเหตุห้ามผู้ไม่เกี่ยวข้องเข้าพื้นที่จนกว่าจะได้รับอนุญาตจากผู้บังคับบัญชารวมถึง
รปภ. ประจำตลอดเวลา

ตำแหน่ง : ที่ปรึกษา Consultant (CT)
หน้าที่ : ให้คำแนะนำต่อ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน"
ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ CT	ระดับ 1 ผู้ทำหน้าที่ CT	ระดับ 2 ผู้ทำหน้าที่ CT
1. ผู้จัดการฝ่ายผลิต	ในแผนฉุกเฉินของอำเภอปลวกแดง	ในแผนฉุกเฉินของจังหวัดระยอง
2. ผู้จัดการฝ่ายปฏิบัติการ		
3. ผู้จัดการโรงงาน		

หน้าที่ในแผนฉุกเฉิน

- เมื่อได้รับแจ้งเหตุประกาศ "ภาวะฉุกเฉิน" ให้ไปรายงานตัวต่อ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" (ED) ที่ศูนย์ควบคุมภาวะฉุกเฉิน (ESIE)
- ให้ข้อมูลเกี่ยวกับอันตรายที่อาจเกิดขึ้นหรือกระทบต่อชีวิตหรือทรัพย์สินของบริษัทและทรัพย์สินของประชาชนรวมทั้งผลกระทบต่อสิ่งแวดล้อม "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" เกี่ยวกับ
 - ๕ อันตรายของสารเคมี
 - ๕ อันตรายโครงสร้างของอาคารสถานที่ประกอบการที่เกิดเหตุหรือใกล้เคียง
 - ๕ วิธีการระงับเหตุที่ไม่เป็นอันตรายหรือมีอัตราการเสี่ยงสูงต่อผู้เข้าร่วมเหตุ
- ประเมินตามเหตุการณ์สภาพแวดล้อมของเหตุการณ์ เพื่อเสนอให้ข้อมูลประกอบการตัดสินใจของ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" ประกอบการตัดสินใจประกาศยกเลิกภาวะฉุกเฉิน
- ให้คำแนะนำต่อ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" ในการบูรณะฟื้นฟูโรงงานหลังภาวะฉุกเฉิน



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



ตำแหน่ง : ทีมตัดแยกระบบ (Isolation Controller Team)

หน้าที่ : ตัดแยกระบบ

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ Isolation Controller Team	ระดับ 1 ผู้ทำหน้าที่ Isolation Controller Team	ระดับ 2 ผู้ทำหน้าที่ Isolation Controller Team
1. หัวหน้าส่วนซ่อมบำรุงระบบเครื่องจักร (OMM)	ในแผนฉุกเฉินของอำเภอปลวกแดง	ในแผนฉุกเฉินของจังหวัดระยอง
2. หัวหน้าส่วนซ่อมบำรุงโรงงาน		

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- จัดเตรียมเอกสารสำคัญที่จำเป็นต้องใช้ในการดำเนินการช่วยเหลือฝ่ายปฏิบัติการและทีมตอบโต้ภาวะฉุกเฉิน ในการตอบโต้ภาวะฉุกเฉิน
- จัดทำแผนการสื่อสารการประสานงานกับหน่วยงานที่เกี่ยวข้อง กรณีที่มีการสั่งการให้ดำเนินการสนับสนุนฝ่ายปฏิบัติการหรือฝ่ายตอบโต้ภาวะฉุกเฉิน
- จัดทำแผนสนับสนุนการตอบโต้ภาวะฉุกเฉินในด้านต่างๆ เช่น การตัดแยกระบบไฟฟ้า, ระบบเครื่องจักรกล, รวมถึงระบบต่างๆที่เกี่ยวข้อง รวมถึงการสนับสนุนทางด้านเชื้อเพลิงของรถดับเพลิง, ระบบแสงสว่างที่ใช้ในการตอบโต้ภาวะฉุกเฉิน
- จัดให้มีการตรวจสอบอุปกรณ์ต่างๆ ที่จำเป็นต้องใช้ในการตอบโต้ภาวะฉุกเฉิน ให้มีสภาพที่ต้องพร้อมใช้งานได้ตลอดเวลา
- จัดทำแผนฟื้นฟูสภาพของอุปกรณ์ที่ประสบเหตุให้สามารถกลับนำมาใช้งานได้ตามปกติโดยเร็วที่สุด
- ควบคุมตรวจสอบ อุปกรณ์ที่ใช้อยู่ภายในนิคมอุตสาหกรรมให้มีความปลอดภัยตามมาตรฐาน
- จัดเตรียม ตรวจสอบระบบไฟฟ้าสำรอง ระบบแสงสว่างให้พร้อมใช้งานเสมอ

ในภาวะฉุกเฉิน

- รายตัวต่อ OC ณ จุดที่เกิดเหตุ และพร้อมแจ้งยอดจำนวนพนักงานของฝ่ายซ่อมบำรุง
- สนับสนุนการปฏิบัติงานของทีมตอบโต้ภาวะฉุกเฉิน เช่นการตัดระบบอุปกรณ์ต่างๆ ที่จะเป็นอันตรายต่อทีมควบคุมภาวะฉุกเฉิน รวมถึงการหยุดการหมุนเนื่องจากเชื้อเพลิง
- สั่งการในส่วนงานที่เกี่ยวข้องตัดแยกระบบไฟฟ้าในโรงงานที่อาจเป็นอันตรายต่อการควบคุมภาวะฉุกเฉิน



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



ภายหลังภาวะฉุกเฉิน

- ทำการสอบสวนหาสาเหตุของการเกิดอุบัติเหตุ ที่เกิดขึ้นร่วมกับหน่วยงานต่างๆ
- ทำการสำรวจการเสียหายของอุปกรณ์, เครื่องจักร ที่ประสบเหตุ
- รายงานสภาพความเสียหายของอุปกรณ์
- ดำเนินการแก้ไข ซ่อมแซมอุปกรณ์ที่ได้รับผลกระทบให้สามารถนำกลับมาใช้งานได้อีกครั้ง
- จัดฟื้นฟูสภาพฉุกเฉินให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

แผนฟื้นฟูภายหลังเกิดเหตุฉุกเฉิน (REMEDIATION PLAN)

ผู้อำนวยการปฏิบัติการ มีหน้าที่รับผิดชอบโดยตรงหรือมอบหมายแต่งตั้งผู้รับผิดชอบ ให้ดำเนินการดังนี้

- ดำเนินการบรรเทาทุกภายหลังเกิดเหตุดังนี้
 - ประสานงานกับหน่วยงานราชการที่เกี่ยวข้อง
 - ประสานงานกับหน่วยงานที่เกี่ยวข้อง เช่น OMS = ผู้จัดการฝ่ายปฏิบัติการ, OMW = หัวหน้าส่วนปฏิบัติการระบบน้ำประปา, OMM = หัวหน้าส่วนงานซ่อมบำรุงระบบเครื่องจักร, OMG = หัวหน้าส่วนงานซ่อมบำรุงทั่วไป, OMF = หัวหน้าส่วนความปลอดภัยและดับเพลิง เป็นต้น
 - สำรวจประเมินความเสียหายร่วมกับหน่วยงานที่เกี่ยวข้องทั้งหน่วยงานภายในบริษัทและหน่วยงานราชการ
 - ช่วยเหลือสงเคราะห์ผู้ที่ประสบภัย
 - ประชาสัมพันธ์สร้างความเข้าใจ สร้างขวัญกำลังใจให้กับพนักงานภายในบริษัทและชุมชนข้างเคียงจุดที่เกิดเหตุ
 - ฟื้นฟูการดำเนินการดำเนินธุรกิจมิให้ชะงัก ทั้งทางด้านวัสดุอุปกรณ์ เครื่องมือ เครื่องจักร ขบวนการผลิต และการบริการ
- ดำเนินการฟื้นฟูสภาพแวดล้อมที่อาจจะมีผลกระทบต่อผู้ปฏิบัติงาน สิ่งแวดล้อม ทรัพย์สิน และชุมชนใกล้เคียงโดย
 - ปรับปรุงพื้นที่ที่ได้รับความเสียหายให้เร็วที่สุด
 - ปรับปรุงอุปกรณ์ต่างๆ ให้ใช้การได้เร็วที่สุด
 - กำหนดมาตรการการป้องกัน สำหรับการดำเนินกิจกรรมต่างๆที่เกี่ยวข้อง



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



3. ทำการเฝ้าระวังทางแพทย์ โดยจัดให้เจ้าหน้าที่ที่เข้าทำการระงับเหตุฉุกเฉิน ได้รับการตรวจสุขภาพ เพื่อความมั่นใจด้านความปลอดภัยของเจ้าหน้าที่ที่ปฏิบัติงานและลดความเสี่ยงต่ออันตรายจากสารเคมีตกค้างในร่างกาย



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



หมายเลขโทรศัพท์หน่วยงานที่รับผิดชอบ/หน่วยราชการที่เกี่ยวข้อง

ประเภทเหตุการณ์	ผู้รับผิดชอบ/หน่วยงานราชการ	หมายเลขโทรศัพท์	หมายเหตุ
เหตุสาธารณูปโภค 1). ไฟฟ้าดับ/ขัดข้อง	- การไฟฟ้าส่วนภูมิภาคระยอง	038-611132	
	- การไฟฟ้าส่วนภูมิภาคปลวกแดง	038-659070	
	- สถานีไฟฟ้าย่อยปลวกแดง 2	038-656048	
	- OMM คุณสมนธ์ เพ็งแสงทอง	081-2958032	
2). โทรศัพท์ขัดข้อง	- OMM คุณสมนธ์ เพ็งแสงทอง	081-2958032	
	- ที ที แอนด์ ที	038-807018-30	
3). ระบบน้ำประปาขัดข้อง	- OMW คุณสมนธ์ ช้างนิล	081-9031576	CH # 245.2625 MHz.
	- OMG คุณนิคม อภิเนตร	086-8218067	
4). ระบบท่อส่งน้ำดิบ	- OMW คุณสมนธ์ ช้างนิล	081-9031576	
	- EAST WATER (ระยอง)	038-685570	
	- EAST WATER (แหลมฉบัง)	038-400193	
5). ระบบบำบัดน้ำเสีย	- OMW คุณสมนธ์ ช้างนิล	081-9031576	
เหตุฉุกเฉิน 1)เพลิงไหม้ 2) อุบัติเหตุจากจราจร 3) สารเคมีหกรั่วไหล 4) ท่อแก๊สรั่ว/เสียหาย 5) อุทกภัย	- ศูนย์ควบคุมภาวะฉุกเฉิน ESIE	038-954543 (Auto)	
	- OMF คุณอดิเรก โคตรชุม	063-2026504	
	- ป้อมตำรวจ (Plaza 1)	038-954433	
	- สถานีดับเพลิงเทศบาลอำเภอปลวกแดง	038-659003	
	- สถานีดับเพลิง อบต.ปลวกแดง	033-017729, 086-8196785	
	- สถานีดับเพลิง อบต.คาสีทรี	038-010812, 086-196785	
	- สถานีดับเพลิง เทศบาลจอมพลเจ้าพระยา	038-3016243	
	- สก. ปลวกแดง	038-659201	
	- สก. บ่อวิน	038-067313	
	โรงพยาบาล		
	- โรงพยาบาลปลวกแดง	038-659117 ต่อ 110	
	- โรงพยาบาลระยอง	038-617631	
	- โรงพยาบาลแหลมฉบังอินเตอร์เนชั่นแนล	033-009800, 033-009888	
	- โรงพยาบาลอ่าวอุดม	038-352974-9	
	- โรงพยาบาลสมเด็จพระศรีราชา	038-322157-9	
	- โรงพยาบาลกรุงเทพพัทยา	038-259999	



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



หมายเลขโทรศัพท์ผู้รับผิดชอบ/หน่วยงานราชการที่เกี่ยวข้อง (ต่อ)

ประเภทเหตุการณ์	ผู้รับผิดชอบ/หน่วยงานราชการ	หมายเลข โทรศัพท์/วิทยุสื่อสาร	หมายเหตุ
เหตุฉุกเฉิน 6)เพลิงไหม้ 7) อุบัติเหตุจากจราจร 8) สารเคมีหกรั่ว 9) ท่อแก๊สรั่ว/เสียหาย 10) อุทกภัย	โรงพยาบาล		
	- โรงพยาบาลสมิติเวช ศรีราชา (Plaza I)	095-2078522, 063-8869484	
	- โรงพยาบาลสมิติเวช ศรีราชา (ศรีราชา)	038-320300	
	- โรงพยาบาลพญาไท ศรีราชา	038-317319, 084-300900	
	- โรงพยาบาลสมเด็จพระนางเจ้าสิริกิติ์ กรมการแพทย์ทหารเรือ	038-245700	
	- โรงพยาบาลพิทยาม โมเรียว	038-488777	
	ป.ต.ท.		ท้องถิ่นขอความร่วมมือให้ แจ้ง ปตท. ที่รับผิดชอบ
	- ศูนย์ควบคุมการก๊าซธรรมชาติชลบุรี	038-274397-9	
	- ผู้จัดการแผนกบำรุงรักษาท่อและอุปกรณ์	038-274390	
	- ศูนย์ควบคุมก๊าซธรรมชาติ เขต 3	038-685021	
	สำนักงานนิคมอุตสาหกรรมอีสเทิร์นซี บอร์ด (ระยอง)		
	- คุณสุวัฒน์ กิจโสภณ (OMS)	081-6531352	ESIE
	- คุณชัยวุฒิ กองมงคล (SHE)	065-7291375	ESIE
	- คุณปิยะธิดา ถิระวันธุ์ (EMG)	087-9191771	ESIE
โรคติดต่อหรือโรคระบาด	โรงพยาบาล		
	- โรงพยาบาลปลวกแดง	038-659117 ต่อ 110	
	- โรงพยาบาลระยอง	038-617631	
	- โรงพยาบาลแหลมฉบังอินเตอร์เนชั่นแนล	033-009800, 033-009888	
	- โรงพยาบาลอ่าวอุดม	038-352974-9	
	- โรงพยาบาลสมเด็จพระนางเจ้าสิริกิติ์	038-322157-9	
	- โรงพยาบาลสมิติเวช ศรีราชา (Plaza I)	095-2078522, 063-8869484	
	- โรงพยาบาลสมิติเวช ศรีราชา (ศรีราชา)	038-320300	
	- โรงพยาบาลพญาไท ศรีราชา	038-317319, 084-300900	
	- โรงพยาบาลสมเด็จพระนางเจ้าสิริกิติ์ กรมการแพทย์ทหารเรือ	038-245700	
	- โรงพยาบาลพิทยาม โมเรียว	038-488777	
	- โรงพยาบาลกรุงเทพพัทยา	038-259999	



แผนควบคุมภาวะฉุกเฉิน

Emergency Plan

Eastern Seaboard Industrial Estates (Rayong)



หมายเลขโทรศัพท์ผู้รับผิดชอบ/หน่วยงานราชการที่เกี่ยวข้อง (ต่อ)

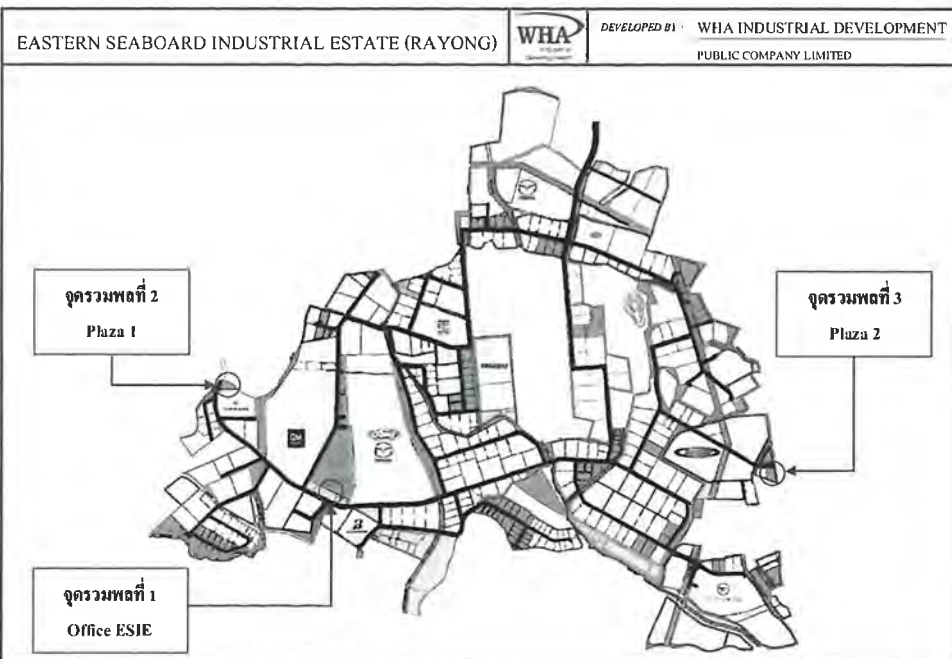
ประเภทเหตุการณ์	ผู้รับผิดชอบ/หน่วยงานราชการ	หมายเลข โทรศัพท์/วิทยุสื่อสาร	หมายเหตุ
โรคติดต่อหรือโรคระบาด	สำนักงานนิคมอุตสาหกรรมอีสเทิร์นซี บอร์ด (ระยอง)		
	- ศูนย์ควบคุมภาวะฉุกเฉิน ESIE	038-954543 (Auto)	ESIE
	- คุณ [REDACTED] (OMS)	[REDACTED]	
	- คุณ [REDACTED] (SHE)	[REDACTED]	
	- คุณ [REDACTED] (EMG)	[REDACTED]	
	- คุณ [REDACTED] (OMF)	[REDACTED]	
	หน่วยงานราชการ		
	- องค์การบริหารส่วนตำบลปลวกแดง	038-659866	
	- สำนักงานสาธารณสุขอำเภอปลวกแดง	038-659069	
	- ที่ว่าการอำเภอปลวกแดง	038-659115	
	- สำนักงานสาธารณสุขอำเภอศรีราชา	038-322503	
	- ที่ว่าการอำเภอศรีราชา	038-311020	
	- สำนักงานควบคุมป้องกันโรคที่ 6 ชลบุรี	038-271881-2	



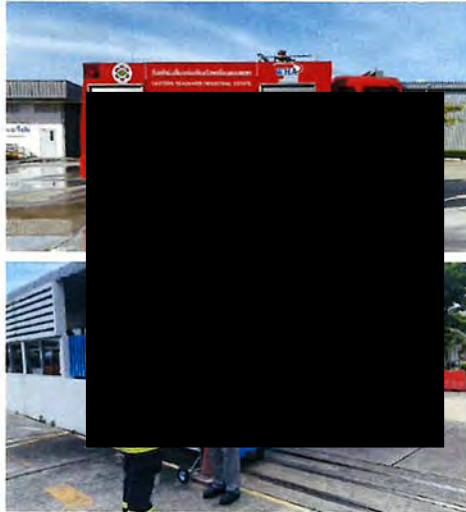
แผนควบคุมภาวะฉุกเฉิน
Emergency Plan
Eastern Seaboard Industrial Estates (Rayong)



แผนที่จุดรวมพลคนจุดอุตสาหกรรมอีสเทิร์นซีบอร์ดอินดัสเตรียลเอสเตท (ระยอง)







บริษัท บริดจสโตน เมทัลฟา (ประเทศไทย) จำกัด

วันที่ 5 สิงหาคม 2567



บริษัท กัลฟ์ ทีเอส1 จำกัด และบริษัท กัลฟ์ ทีเอส2 จำกัด

วันที่ 19 สิงหาคม 2567



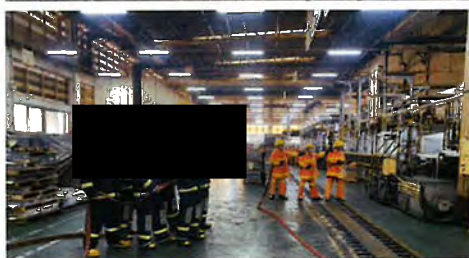
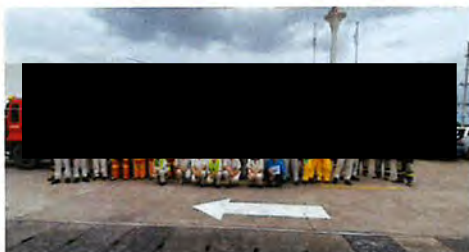
บริษัท คันไซ เรซิน (ประเทศไทย) จำกัด

วันที่ 21 สิงหาคม 2567



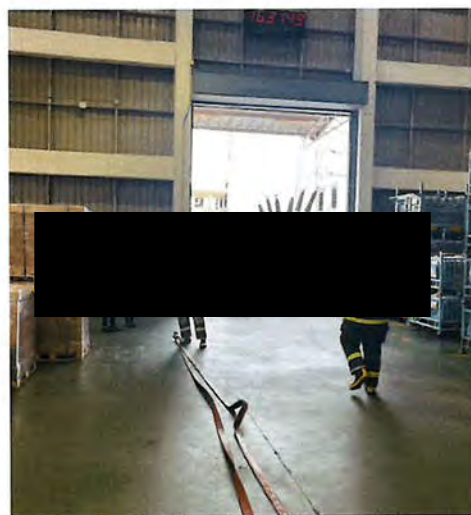
บริษัท บีเอเอสเอฟ เคมแคท (ประเทศไทย) จำกัด

วันที่ 9 กันยายน 2567



บริษัท ไทยอซาควา จำกัด

วันที่ 21 กันยายน 2567



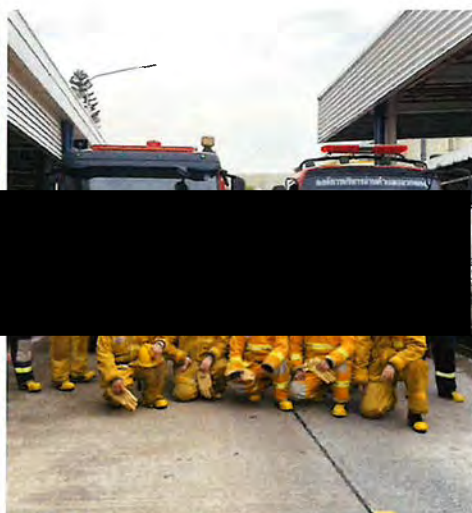
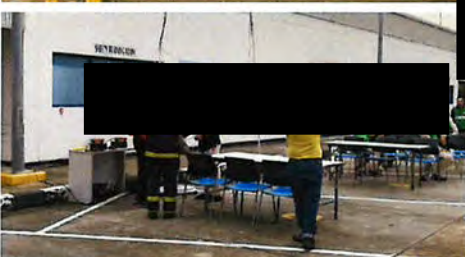
บริษัท สมบูรณ์ ฟอรัจจิง เทคโนโลยี จำกัด

วันที่ 25 กันยายน 2567



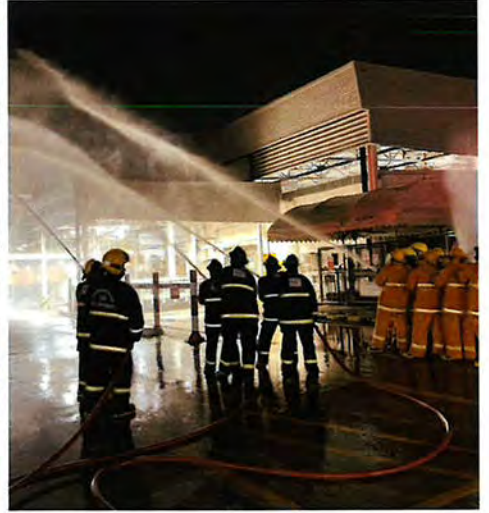
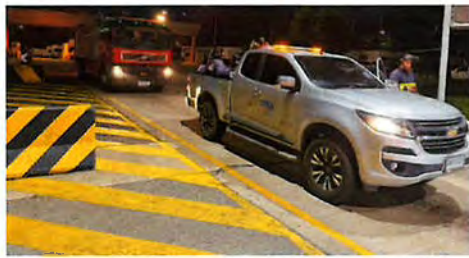
บริษัท โอซากะราชิ (ประเทศไทย) จำกัด

วันที่ 26 ตุลาคม 2567



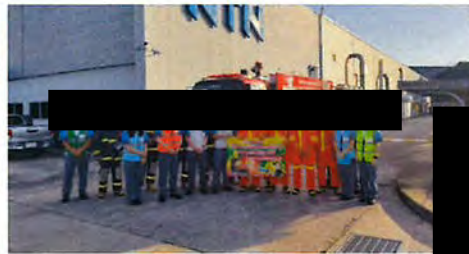
บริษัท ออโต้ลลาเยนซ์ (ประเทศไทย) จำกัด

วันที่ 1 พฤศจิกายน 2567 (เวลากลางวัน)



บริษัท ออโต้แอลลายแอนซ์ (ประเทศไทย) จำกัด

วันที่ 1 พฤศจิกายน 2567 (เวลากลางคืน)



บริษัท เอ็นทีเอ็น แมนูแฟคเจอร์ริง (ไทยแลนด์) จำกัด

วันที่ 27 พฤศจิกายน 2567



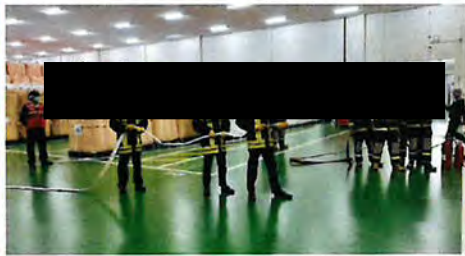
บริษัท นิชินโบะ สมบูรณ์ ออโตโมทีฟ จำกัด

วันที่ 28 พฤศจิกายน 2567



บริษัท เต็ดตรา แพ้ค (ประเทศไทย) จำกัด

วันที่ 4 ธันวาคม 2567



บริษัท ทานากะ อาอิ อินดัสทรีส์ (ประเทศไทย) จำกัด

วันที่ 4 ธันวาคม 2567

ภาคผนวก ก-19

สรุปสถิติอุบัติเหตุ

นิคมอุตสาหกรรมอีสเทิร์นซีบอร์ด (ระยอง)

สรุปอุบัติเหตุ ปี 2567



Location	WHA Avenue			E-1			E-2			E-3			E-4			E-5			E-6			E-7			E-8			E-9			E-10			E-11			E-14			E-16			รวม
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C							
มกราคม	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2			
กุมภาพันธ์	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
มีนาคม	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
เมษายน	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
พฤษภาคม	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
มิถุนายน	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
กรกฎาคม	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
สิงหาคม	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		
กันยายน	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
ตุลาคม	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
พฤศจิกายน	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1		
ธันวาคม	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
รวม A	0			0			0			0			0			0			0			0			0			0			0			0			0			0			
รวม B		1			0			0			1			0			0			0			0			0			0			0			0			0			2		
รวม C			7			0			0			3			0			0			1			1			0			1			0			1			1	15			
รวม	0	1	7	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1		17		
บาดเจ็บ		1	3								1								1			1					1									3			1	12			
เสียชีวิต			3																																						3		

หมายเหตุ



A หมายถึง : การเกิดอุบัติเหตุที่เกิดจากสภาพการณ์ที่ไม่ปลอดภัย เช่น ถนนเป็นหลุมเป็นบ่อ หรือ แสงสว่างไม่เพียงพอ

B หมายถึง : การเกิดอุบัติเหตุที่เกิดจากความไม่พร้อมของร่างกายในขณะที่ขับรถ เช่น เมาสุรา, สภาพร่างกายเหนื่อยล้าจากการทำงาน

C หมายถึง : การเกิดอุบัติเหตุที่เกิดการใช้ความเร็วเกินมากจนทำให้เกิดอุบัติเหตุและการเกิดอุบัติเหตุจากการจราจรที่ติดขัด

จัดทำโดย (OMF)

..... (SHE)

สะสมรวม ปี 2567

5,016

4,930

บาดเจ็บสะสม

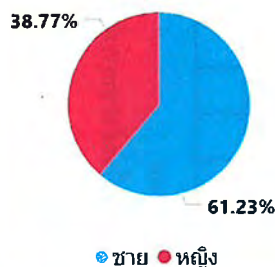
83

เสียชีวิตสะสม

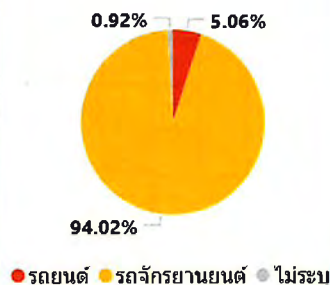
3

ทุพพลภาพสะสม

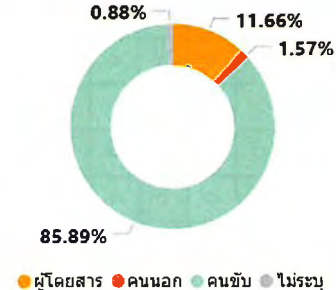
จำแนกตาม เพศ



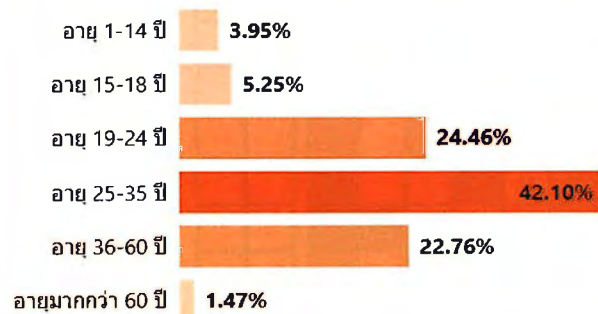
จำแนกตาม ประเภทรถ



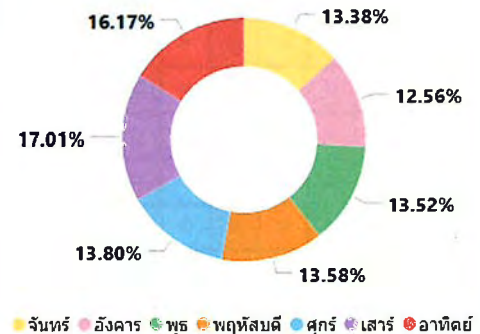
จำแนกตาม สถานะผู้ประสบภัย



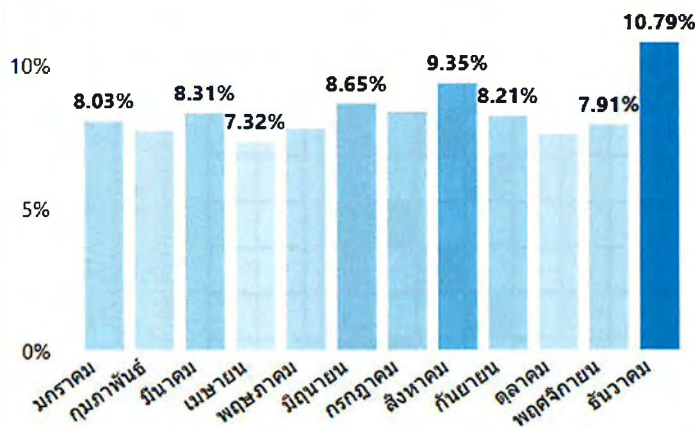
จำนวนสถิติผู้ประสบภัย สะสม ปี 2567 จำแนกตาม ช่วงอายุ



จำแนกตาม วัน



จำนวนสถิติผู้ประสบภัย สะสม จำแนกตาม เดือน



จำนวนสถิติผู้ประสบภัย สะสม ปี 2567
จำแนกตาม ช่วงเวลา

