

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ผลการทดสอบคุณภาพอากาศในปล่องระบาย

Request No. LA65-0413

Report No. 6504-0428

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Hot Oil Heater Stack 1 (S-140A)

SAMPLE NO. : 02031

SAMPLING DATE : 08/04/2022

SAMPLING TIME : 10:10-10:55

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height : 20.00 m

Diameter : 0.45 m

Temperature : 352.00 °C

Air Velocity : 4.24 m/s

Flow rate² : 0.29 m³/s

Moisture Content : 8.92 %

Type of Process : Combustion

Type of Fuel : Recovered Volentile

Oxygen Content : 5.20 %

Barometric Pressure : 759.25 mm.Hg

Atmospheric Temperature : 35.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.20 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	10:10-10:55	9.1	8.1	320, 216.0 ³	mg/m ³
(TSP)			0.0026	-	0.065 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. TEERAPONG NAULIN (จ-003-ค-5620)

Examined By

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

29/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-0413

Report No. 6504-0429

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : Hot Oil Heater Stack 1 (S-140A) SAMPLE NO. : 02032
 SAMPLING DATE : 08/04/2022 SAMPLING TIME : 10:10-10:40
 RECEIVED DATE : 21/04/2022 REPORTED DATE : 29/04/2022
 TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	20.00	m	Type of Process :	Combustion
Diameter :	0.45	m	Type of Fuel :	Recovered Volentile
Temperature :	352.00	°C	Oxygen Content :	5.20 %
Air Velocity :	4.24	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.29	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	8.92	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.20 % O ₂	7 % O ₂		
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	10:10-10:40	<3.4	<3.4	157, 23.1 ³	mg/m ³
			<1.3	<1.3	60, 8.8 ³	ppm
			<0.0010	-	0.007 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ค-5620)

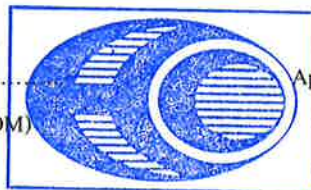
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Request No. LA65-0413

Report No. 6504-0430

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : Hot Oil Heater Stack 1 (S-140A) SAMPLE NO. : 02033
SAMPLING DATE : 08/04/2022 SAMPLING TIME : 10:30-10:35
RECEIVED DATE : 21/04/2022 REPORTED DATE : 29/04/2022
TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	20.00	m	Type of Process :	Combustion
Diameter :	0.45	m	Type of Fuel :	Recovered Volatile
Temperature :	352.00	°C	Oxygen Content :	5.20 %
Air Velocity :	4.24	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.29	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	8.92	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.20 % O ₂	7 % O ₂		
Oxides of Nitrogen	Chemical Absorption,	10:30-10:35	<2.0	<2.0	376, 74.5 ³	mg/m ³
(NO _x as NO ₂)	Colorimetric		<1.0	<1.0	200, 39.6 ³	ppm
			<0.0006	-	0.022 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

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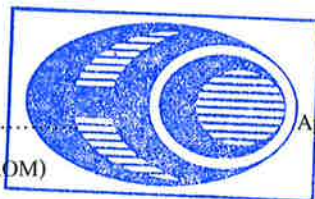
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Request No. LA65-0413

Report No. 6504-0425

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Hot Oil Heater Stack 2 (S-140B)

SAMPLE NO. : 02028

SAMPLING DATE : 08/04/2022

SAMPLING TIME : 09:05-10:00

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height : 22.00 m
Diameter : 0.60 m
Temperature : 243.00 °C
Air Velocity : 3.99 m/s
Flow rate² : 0.60 m³/s
Moisture Content : 7.36 %

Type of Process : Combustion
Type of Fuel : Recovered Volatile
Oxygen Content : 6.97 %
Barometric Pressure : 759.25 mm.Hg
Atmospheric Temperature : 33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			6.97 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	09:05-10:00	44.1	44.0	320, 216.0 ³	mg/m ³
(TSP)			0.0265	-	0.103 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

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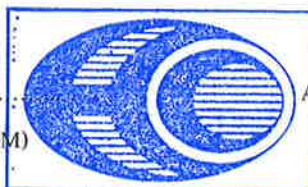
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Request No. LA65-0413

Report No. 6504-0426

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : Hot Oil Heater Stack 2 (S-140B) SAMPLE NO. : 02029
 SAMPLING DATE : 08/04/2022 SAMPLING TIME : 09:10-09:40
 RECEIVED DATE : 21/04/2022 REPORTED DATE : 29/04/2022
 TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	22.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Recovered Volentile
Temperature :	243.00	°C	Oxygen Content :	6.97 %
Air Velocity :	3.99	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.60	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	7.36	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			6.97 % O ₂	7 % O ₂		
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	09:10-09:40	<3.4	<3.4	157, 23.1 ^{1/3}	mg/m ³
			<1.3	<1.3	60, 8.8 ^{1/3}	ppm
			<0.0020	-	0.011 ^{1/3}	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

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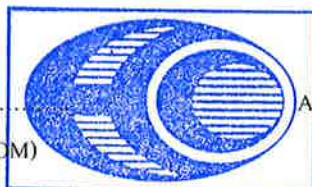
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(ว-003-ค-4377)

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Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

29/04/2022

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Request No. LA65-0413

Report No. 6504-0427

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : Hot Oil Heater Stack 2 (S-140B) SAMPLE NO. : 02030
SAMPLING DATE : 08/04/2022 SAMPLING TIME : 09:20-09:25
RECEIVED DATE : 21/04/2022 REPORTED DATE : 29/04/2022
TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	22.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Recovered Volatile
Temperature :	243.00	°C	Oxygen Content :	6.97 %
Air Velocity :	3.99	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.60	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	7.36	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			6.97 % O ₂	7 % O ₂		
Oxides of Nitrogen	Chemical Absorption,	09:20-09:25	20.4	20.4	376, 74.5 ³	mg/m ³
(NO _x as NO ₂)	Colorimetric		10.8	10.8	200, 39.6 ³	ppm
			0.0122	-	0.035 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ค-5620)

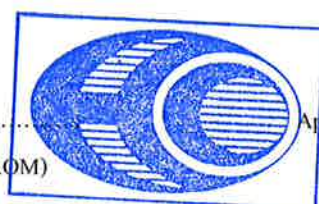
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29/04/2022



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Approved By



(MR. THONGCHAI BOONSAK)

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29/04/2022

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Request No. LA65-0413

Report No. 6504-0433

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Die-Fume Scrubber Stack of HIPS

SAMPLE NO. : 02036

SAMPLING DATE : 08/04/2022

SAMPLING TIME : 10:55-11:10

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.35	m	Type of Fuel :	-
Temperature :	39.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.65	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.33	m ³ /s	Atmospheric Temperature :	36.70 °C
Moisture Content :	-	%		

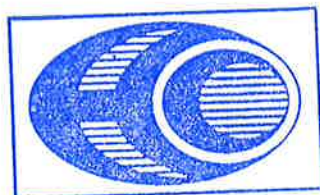
PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Styrene monomer	US.EPA Method 18	10:55-11:10	9.22	44.0	mg/m ³
			2.16	-	ppm
			0.0030	0.0604	g/s

REMARK:¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: *Thongchai Boonsak*

(MR. THONGCHAI BOONSACK)

29/04/2022

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Request No. LA65-0413

Report No. 6504-0434

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Die-Fume Scrubber Stack of HIPS

SAMPLE NO. : 02037

SAMPLING DATE : 08/04/2022

SAMPLING TIME : 10:55-11:10

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.35	m	Type of Fuel :	-
Temperature :	39.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.65	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.33	m ³ /s	Atmospheric Temperature :	36.70 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Ethylbenzene	Adsorption, Gas Chromatographic (U.S. EPA Method 18)	10:55-11:10	17.13	60.0	mg/m ³
			3.94	-	ppm
			0.0057	0.0824	g/s

REMARK:

¹ กำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak
(MR. THONGCHAI BOONSAK)

29/04/2022

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Request No. LA65-0413

Report No. 6504-0431

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Pellet Dryer of HIPS

SAMPLE NO. : 02034

SAMPLING DATE : 08/04/2022

SAMPLING TIME : 11:00-11:15

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	11.00	m	Type of Process :	Exhaust
Diameter :	0.33	m	Type of Fuel :	-
Temperature :	59.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.43	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.25	m ³ /s	Atmospheric Temperature :	36.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Styrene monomer	US.EPA Method 18	11:00-11:15	<0.45	1.5	mg/m ³
			<0.11	-	ppm
			<0.0001	0.00104	g/s

REMARK:¹ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

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(MR. THONGCHAI BOONSAK)

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Request No. LA65-0413

Report No. 6504-0432

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Pellet Dryer of HIPS

SAMPLE NO. : 02035

SAMPLING DATE : 08/04/2022

SAMPLING TIME : 11:00-11:15

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	11.00	m	Type of Process :	Exhaust
Diameter :	0.33	m	Type of Fuel :	-
Temperature :	59.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.43	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.25	m ³ /s	Atmospheric Temperature :	36.00 °C
Moisture Content :	-	%		

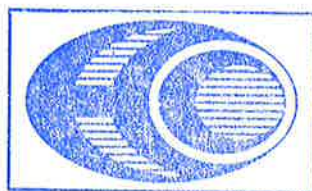
PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Ethylbenzene	Adsorption, Gas Chromatographic	11:00-11:15	<2.07	16.0	mg/m ³
	(U.S. EPA Method 18)		<0.48	-	ppm
			<0.0005	0.01111	g/s

REMARK:¹ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

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Request No. LA65-0413

Report No. 6504-0435

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : Vacuum Pump 2 (จาก Devolatilizer, Recycle Receiver) SAMPLE NO. : 02038
 SAMPLING DATE : 07/04/2022 SAMPLING TIME : 10:50-11:05
 RECEIVED DATE : 21/04/2022 REPORTED DATE : 29/04/2022
 TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	15.30	m	Type of Process :	Exhaust
Diameter :	0.08	m	Type of Fuel :	-
Temperature :	37.00	°C	Oxygen Content :	20.90 %
Air Velocity :	1.87	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.01	m ³ /s	Atmospheric Temperature :	40.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Styrene monomer	US.EPA Method 18	10:50-11:05	<0.45	262.0	mg/m ³
			<0.11	-	ppm
			<0.000005	0.00064	g/s

REMARK:¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

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(MR. THONGCHAI BOONSAK)

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-0413

Report No. 6504-0436

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Vacuum Pump 1 (จาก Reflux Receiver)

SAMPLE NO. : 02039

SAMPLING DATE : 07/04/2022

SAMPLING TIME : 10:50-11:05

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height : 15.00 m
Diameter : 0.04 m
Temperature : 34.00 °C
Air Velocity : 1.76 m/s
Flow rate² : 0.002 m³/s
Moisture Content : - %

Type of Process : Exhaust
Type of Fuel : -
Oxygen Content : 20.90 %
Barometric Pressure : 759.25 mm.Hg
Atmospheric Temperature : 40.00 °C

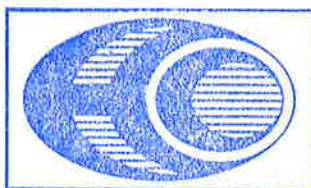
PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Styrene monomer	US.EPA Method 18	10:50-11:05	<0.45	262.0	mg/m ³
			<0.11	-	ppm
			<0.000001	0.00048	g/s

REMARK:¹ กำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

29/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-0413

Report No. 6504-0438

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Die-Fume Scrubber Stack of GPPS

SAMPLE NO. : 02041

SAMPLING DATE : 07/04/2022

SAMPLING TIME : 10:30-10:45

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	15.30	m	Type of Process :	Exhaust
Diameter :	0.30	m	Type of Fuel :	-
Temperature :	44.00	°C	Oxygen Content :	20.90 %
Air Velocity :	1.73	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.11	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

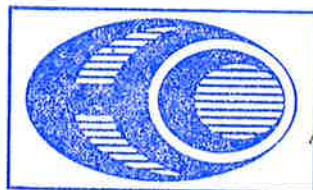
PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Styrene monomer	US.EPA Method 18	10:30-10:45	<0.45	2.7	mg/m ³
			<0.11	-	ppm
			<0.0001	0.0020	g/s

REMARK:¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

29/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-0413

Report No. 6504-0437

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : Pellet Dryer of GPPS

SAMPLE NO. : 02040

SAMPLING DATE : 07/04/2022

SAMPLING TIME : 10:30-10:45

RECEIVED DATE : 21/04/2022

REPORTED DATE : 29/04/2022

TESTED DATE : 21-25/04/2022

STACK DESCRIPTION

Height :	6.00	m	Type of Process :	Exhaust
Diameter :	0.58	m	Type of Fuel :	-
Temperature :	53.80	°C	Oxygen Content :	20.90 %
Air Velocity :	2.45	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	0.57	m ³ /s	Atmospheric Temperature :	35.50 °C
Moisture Content :	-	%		

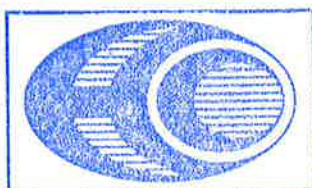
PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Styrene monomer	US.EPA Method 18	10:30-10:45	<0.45	5.0	mg/m ³
			<0.11	-	ppm
			<0.0001	0.0057	g/s

REMARK:¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² WET BASIS (Actual Condition)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

29/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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ผลการทดสอบคุณภาพอากาศในบรรยากาศ

Request No. ATR6504023

Report No. 6504-0671 - 6504-0677

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : ริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีทิล จำกัด (TPAC)
 RECEIVED DATE : 20/04/2022 SAMPLE NO. : A65040671 - A65040677
 TESTED DATE : 20/04/2022-22/04/2022 REPORTED DATE : 26/04/2022

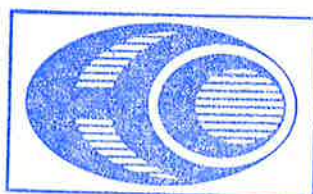
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	04-05/04/2022	0.053	0.33	mg/m ³
		05-06/04/2022	0.077	0.33	mg/m ³
		06-07/04/2022	0.065	0.33	mg/m ³
		07-08/04/2022	0.099	0.33	mg/m ³
		08-09/04/2022	0.098	0.33	mg/m ³
		09-10/04/2022	0.092	0.33	mg/m ³
		10-11/04/2022	0.047	0.33	mg/m ³

REMARK:

^{/1} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsopon)

26/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6504023

Report No. 6504-0685 - 6504-0691

TEST REPORT

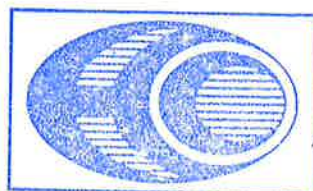
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : รมิรวัดานทิสเหนือของ บริษัท ไทยโพลีอะซีทล จำกัด (TPAC)
 RECEIVED DATE : 20/04/2022 SAMPLE NO. : A65040685 - A65040691
 TESTED DATE : 20/04/2022-21/04/2022 REPORTED DATE : 26/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Styrene	Sorbent Adsorption, Gas	04-05/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
	Chromatography Method	05-06/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		06-07/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		07-08/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		08-09/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		09-10/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		10-11/04/2022	< 0.16	mg/m ³
			< 0.04	ppm

REMARK:

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

26/04/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6504023

Report No. 6504-0678 - 6504-0684

TEST REPORT

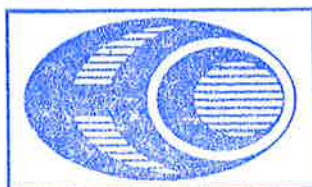
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : ริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)
 RECEIVED DATE : 20/04/2022 SAMPLE NO. : A65040678 - A65040684
 TESTED DATE : 20/04/2022-21/04/2022 REPORTED DATE : 26/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	04-05/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
	Chromatography Method	05-06/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		06-07/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		07-08/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		08-09/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		09-10/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		10-11/04/2022	< 0.15	mg/m ³
			< 0.03	ppm

REMARK:

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

26/04/2022

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Request No. ATR6504023

Report No. 6504-0692 - 6504-0698

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : โรงเรือนบ้านหนองแฟบ
 RECEIVED DATE : 20/04/2022 SAMPLE NO. : A65040692 - A65040698
 TESTED DATE : 20/04/2022-22/04/2022 REPORTED DATE : 26/04/2022

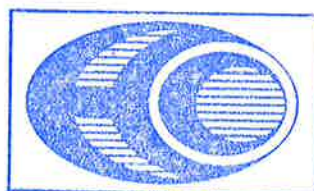
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	04-05/04/2022	0.066	0.33	mg/m ³
		05-06/04/2022	0.070	0.33	mg/m ³
		06-07/04/2022	0.072	0.33	mg/m ³
		07-08/04/2022	0.072	0.33	mg/m ³
		08-09/04/2022	0.092	0.33	mg/m ³
		09-10/04/2022	0.088	0.33	mg/m ³
		10-11/04/2022	0.054	0.33	mg/m ³

REMARK:

^{/1} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsopon)

26/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6504023

Report No. 6504-0706 - 6504-0712

TEST REPORT

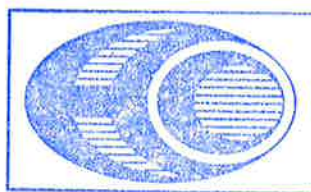
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : โรงเรียนบ้านหนองแฟบ
 RECEIVED DATE : 20/04/2022 SAMPLE NO. : A65040706 - A65040712
 TESTED DATE : 20/04/2022-21/04/2022 REPORTED DATE : 26/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Styrene	Sorbent Adsorption, Gas	04-05/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
	Chromatography Method	05-06/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		06-07/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		07-08/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		08-09/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		09-10/04/2022	< 0.16	mg/m ³
			< 0.04	ppm
		10-11/04/2022	< 0.16	mg/m ³
			< 0.04	ppm

REMARK:

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsopon)

26/04/2022

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Request No. ATR6504023

Report No. 6504-0699 - 6504-0705

TEST REPORT

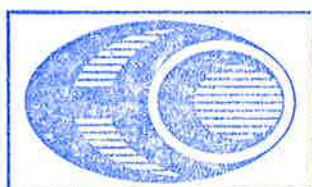
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : โรงเรียนบ้านหนองแฟบ
 RECEIVED DATE : 20/04/2022 SAMPLE NO. : A65040699 - A65040705
 TESTED DATE : 20/04/2022-21/04/2022 REPORTED DATE : 26/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	04-05/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
	Chromatography Method	05-06/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		06-07/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		07-08/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		08-09/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		09-10/04/2022	< 0.15	mg/m ³
			< 0.03	ppm
		10-11/04/2022	< 0.15	mg/m ³
			< 0.03	ppm

REMARK:

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

26/04/2022

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Request No. LA65-R0442

Report No. R6504-1597 – R6504-1603

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอทีล จำกัด (TPAC)
 PARAMETER* : Sulfur Dioxide SAMPLE NO. : 06165-06171
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 04-11/04/2022
 INSTRUMENT : Environnement SA. Model AF22e S/N 913 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	04-05/04/2022	05-06/04/2022	06-07/04/2022	UNIT
10:00 – 11:00 ³	0.002	0.003	0.004	ppm
11:00 – 12:00	0.002	0.003	0.004	ppm
12:00 – 13:00	0.002	0.003	0.004	ppm
13:00 – 14:00	0.002	0.003	0.004	ppm
14:00 – 15:00	0.003	0.003	0.004	ppm
15:00 – 16:00	0.003	0.003	0.004	ppm
16:00 – 17:00	0.002	0.003	0.004	ppm
17:00 – 18:00	0.002	0.003	0.004	ppm
18:00 – 19:00	0.003	0.003	0.004	ppm
19:00 – 20:00	0.003	0.003	0.004	ppm
20:00 – 21:00	0.003	0.003	0.004	ppm
21:00 – 22:00	0.003	0.003	0.004	ppm
22:00 – 23:00	0.003	0.003	0.004	ppm
23:00 – 00:00	0.003	0.004	0.004	ppm
00:00 – 01:00	0.003	0.004	0.004	ppm
01:00 – 02:00	0.003	0.004	0.004	ppm
02:00 – 03:00	0.003	0.004	0.004	ppm
03:00 – 04:00	0.003	0.004	0.004	ppm
04:00 – 05:00	0.003	0.003	0.004	ppm
05:00 – 06:00	0.003	0.004	0.004	ppm
06:00 – 07:00	0.003	0.004	0.004	ppm
07:00 – 08:00	0.003	0.004	0.004	ppm
08:00 – 09:00	0.003	0.004	0.004	ppm
09:00 – 10:00	0.003	0.004	0.004	ppm
Maximum 1 hr.	0.003	0.004	0.004	ppm
Average 24 hr.	0.003	0.003	0.004	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)
² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)
³ Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MS. THANATPORN KLINSOPON)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0442

Report No. R6504-1597 – R6504-1603

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีล จำกัด (TPAC)
PARAMETER* : Sulfur Dioxide SAMPLE NO. : 06165-06171
DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 04-11/04/2022
INSTRUMENT : Environnement SA. Model AF22c S/N 913 RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME / DATE	07-08/04/2022	08-09/04/2022	09-10/04/2022	UNIT
10:00 – 11:00 ³	0.004	0.004	0.005	ppm
11:00 – 12:00	0.004	0.004	0.005	ppm
12:00 – 13:00	0.004	0.004	0.005	ppm
13:00 – 14:00	0.004	0.005	0.005	ppm
14:00 – 15:00	0.004	0.004	0.005	ppm
15:00 – 16:00	0.005	0.005	0.005	ppm
16:00 – 17:00	0.005	0.004	0.005	ppm
17:00 – 18:00	0.005	0.005	0.005	ppm
18:00 – 19:00	0.005	0.005	0.005	ppm
19:00 – 20:00	0.005	0.005	0.005	ppm
20:00 – 21:00	0.005	0.005	0.005	ppm
21:00 – 22:00	0.005	0.005	0.006	ppm
22:00 – 23:00	0.004	0.005	0.006	ppm
23:00 – 00:00	0.004	0.005	0.005	ppm
00:00 – 01:00	0.004	0.005	0.006	ppm
01:00 – 02:00	0.004	0.005	0.006	ppm
02:00 – 03:00	0.005	0.005	0.006	ppm
03:00 – 04:00	0.005	0.005	0.005	ppm
04:00 – 05:00	0.005	0.005	0.005	ppm
05:00 – 06:00	0.004	0.005	0.005	ppm
06:00 – 07:00	0.004	0.005	0.006	ppm
07:00 – 08:00	0.004	0.005	0.006	ppm
08:00 – 09:00	0.004	0.005	0.006	ppm
09:00 – 10:00	0.004	0.005	0.006	ppm
Maximum 1 hr.	0.005	0.005	0.006	ppm
Average 24 hr.	0.004	0.005	0.005	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0442

Report No. R6504-1597 – R6504-1603

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีล จำกัด (TPAC)
 PARAMETER* : Sulfur Dioxide SAMPLE NO. : 06165-06171
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 04-11/04/2022
 INSTRUMENT : Environnement SA. Model AF22e S/N 913 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	10-11/04/2022	UNIT
10:00 – 11:00 ³	0.006	ppm
11:00 – 12:00	0.006	ppm
12:00 – 13:00	0.006	ppm
13:00 – 14:00	0.006	ppm
14:00 – 15:00	0.006	ppm
15:00 – 16:00	0.006	ppm
16:00 – 17:00	0.006	ppm
17:00 – 18:00	0.006	ppm
18:00 – 19:00	0.007	ppm
19:00 – 20:00	0.006	ppm
20:00 – 21:00	0.006	ppm
21:00 – 22:00	0.006	ppm
22:00 – 23:00	0.006	ppm
23:00 – 00:00	0.006	ppm
00:00 – 01:00	0.007	ppm
01:00 – 02:00	0.006	ppm
02:00 – 03:00	0.006	ppm
03:00 – 04:00	0.006	ppm
04:00 – 05:00	0.006	ppm
05:00 – 06:00	0.007	ppm
06:00 – 07:00	0.007	ppm
07:00 – 08:00	0.006	ppm
08:00 – 09:00	0.006	ppm
09:00 – 10:00	0.006	ppm
Maximum 1 hr.	0.007	ppm
Average 24 hr.	0.006	ppm
Standard (1 hr.) ¹⁾	0.30	ppm
Standard (Average 24 hr.) ²⁾	0.12	ppm

REMARK : ¹⁾ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)
²⁾ Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)
³⁾ Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Measurement By Mr. Tummarut Photankum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
 (MS. THANATPORN KLINSOPON)

22/04/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0442

Report No. R6504-1611 - R6504-1617

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 06179-06185
SAMPLING DATE : 04-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME / DATE	04-05/04/2022	05-06/04/2022	06-07/04/2022	UNIT
11:00 - 12:00 ³	0.025	0.008	0.013	ppm
12:00 - 13:00	0.025	0.021	0.008	ppm
13:00 - 14:00	0.024	0.032	0.010	ppm
14:00 - 15:00	0.022	0.037	0.010	ppm
15:00 - 16:00	0.023	0.018	0.011	ppm
16:00 - 17:00	0.023	0.016	0.011	ppm
17:00 - 18:00	0.023	0.014	0.011	ppm
18:00 - 19:00	0.022	0.008	0.010	ppm
19:00 - 20:00	0.017	0.005	0.012	ppm
20:00 - 21:00	0.019	0.007	0.014	ppm
21:00 - 22:00	0.015	0.010	0.016	ppm
22:00 - 23:00	0.007	0.008	0.015	ppm
23:00 - 00:00	0.009	0.010	0.015	ppm
00:00 - 01:00	0.009	0.015	0.013	ppm
01:00 - 02:00	0.025	0.014	0.011	ppm
02:00 - 03:00	0.028	0.021	0.012	ppm
03:00 - 04:00	0.020	0.020	0.013	ppm
04:00 - 05:00	0.018	0.018	0.015	ppm
05:00 - 06:00	0.018	0.018	0.021	ppm
06:00 - 07:00	0.018	0.017	0.022	ppm
07:00 - 08:00	0.021	0.017	0.023	ppm
08:00 - 09:00	0.020	0.015	0.023	ppm
09:00 - 10:00	0.021	0.016	0.023	ppm
10:00 - 11:00	0.020	0.017	0.023	ppm
Maximum 1 hr.	0.028	0.037	0.023	ppm
Average 24 hr.	0.020	0.016	0.015	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phorankhang)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

22/04/2022

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Request No. LA65-R0442

Report No. R6504-1611 – R6504-1617

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : โรงเรียนบ้านหนองแฟบ
 PARAMETER* : Sulfur Dioxide
 DETERMINATION METHOD : UV-Fluorescence
 INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 06179-06185
 SAMPLING DATE : 04-11/04/2022
 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	07-08/04/2022	08-09/04/2022	09-10/04/2022	UNIT
11:00 – 12:00 ³	0.023	0.025	0.025	ppm
12:00 – 13:00	0.022	0.025	0.025	ppm
13:00 – 14:00	0.022	0.026	0.025	ppm
14:00 – 15:00	0.022	0.026	0.025	ppm
15:00 – 16:00	0.021	0.026	0.025	ppm
16:00 – 17:00	0.021	0.026	0.025	ppm
17:00 – 18:00	0.021	0.024	0.024	ppm
18:00 – 19:00	0.022	0.024	0.024	ppm
19:00 – 20:00	0.022	0.024	0.024	ppm
20:00 – 21:00	0.022	0.024	0.024	ppm
21:00 – 22:00	0.023	0.024	0.024	ppm
22:00 – 23:00	0.023	0.024	0.024	ppm
23:00 – 00:00	0.023	0.024	0.024	ppm
00:00 – 01:00	0.023	0.024	0.024	ppm
01:00 – 02:00	0.023	0.024	0.024	ppm
02:00 – 03:00	0.023	0.024	0.025	ppm
03:00 – 04:00	0.024	0.024	0.024	ppm
04:00 – 05:00	0.024	0.025	0.024	ppm
05:00 – 06:00	0.024	0.024	0.024	ppm
06:00 – 07:00	0.024	0.024	0.024	ppm
07:00 – 08:00	0.024	0.025	0.024	ppm
08:00 – 09:00	0.024	0.025	0.025	ppm
09:00 – 10:00	0.024	0.025	0.025	ppm
10:00 – 11:00	0.025	0.025	0.025	ppm
Maximum 1 hr.	0.025	0.026	0.025	ppm
Average 24 hr.	0.023	0.025	0.025	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phonakthana)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

22/04/2022

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Request No. LA65-R0442

Report No. R6504-1611 – R6504-1617

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : โรงเรียนบ้านหนองแฟบ
 PARAMETER* : Sulfur Dioxide
 DETERMINATION METHOD : UV-Fluorescence
 INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 06179-06185
 SAMPLING DATE : 04-11/04/2022
 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	10-11/04/2022	UNIT
11:00 – 12:00 ³	0.025	ppm
12:00 – 13:00	0.024	ppm
13:00 – 14:00	0.025	ppm
14:00 – 15:00	0.026	ppm
15:00 – 16:00	0.026	ppm
16:00 – 17:00	0.025	ppm
17:00 – 18:00	0.024	ppm
18:00 – 19:00	0.024	ppm
19:00 – 20:00	0.024	ppm
20:00 – 21:00	0.024	ppm
21:00 – 22:00	0.024	ppm
22:00 – 23:00	0.024	ppm
23:00 – 00:00	0.024	ppm
00:00 – 01:00	0.024	ppm
01:00 – 02:00	0.024	ppm
02:00 – 03:00	0.024	ppm
03:00 – 04:00	0.024	ppm
04:00 – 05:00	0.025	ppm
05:00 – 06:00	0.024	ppm
06:00 – 07:00	0.024	ppm
07:00 – 08:00	0.025	ppm
08:00 – 09:00	0.025	ppm
09:00 – 10:00	0.025	ppm
10:00 – 11:00	0.025	ppm
Maximum 1 hr.	0.026	ppm
Average 24 hr.	0.025	ppm
Standard (1 hr.) ¹	0.30	ppm
Standard (Average 24 hr.) ²	0.12	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)
² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)
³ Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Measurement By Mr. Tummarut Photakham)



Approved By 
 (MS. THANATPORN KLINSOPON)

22/04/2022

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Request No. LA65-R0442

Report No. R6504-1604 – R6504-1610

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีลีน จำกัด (TPAC)

PARAMETER* : Nitrogen Dioxide SAMPLE NO. : 06172-06178

DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 04-11/04/2022

INSTRUMENT : Environnement SA. Model AC32e S/N 693 RECEIVED DATE : 11/04/2022

REPORTED DATE : 22/04/2022

TIME / DATE	04-05/04/2022	05-06/04/2022	06-07/04/2022	UNIT
10:00 – 11:00 ²	0.019	0.023	0.020	ppm
11:00 – 12:00	0.019	0.019	0.016	ppm
12:00 – 13:00	0.019	0.017	0.010	ppm
13:00 – 14:00	0.014	0.013	0.007	ppm
14:00 – 15:00	0.016	0.017	0.006	ppm
15:00 – 16:00	0.010	0.018	0.006	ppm
16:00 – 17:00	0.008	0.007	0.006	ppm
17:00 – 18:00	0.008	0.006	0.006	ppm
18:00 – 19:00	0.009	0.006	0.008	ppm
19:00 – 20:00	0.010	0.006	0.007	ppm
20:00 – 21:00	0.020	0.009	0.005	ppm
21:00 – 22:00	0.022	0.011	0.006	ppm
22:00 – 23:00	0.020	0.018	0.005	ppm
23:00 – 00:00	0.020	0.026	0.005	ppm
00:00 – 01:00	0.018	0.017	0.008	ppm
01:00 – 02:00	0.022	0.036	0.016	ppm
02:00 – 03:00	0.011	0.029	0.013	ppm
03:00 – 04:00	0.008	0.030	0.013	ppm
04:00 – 05:00	0.008	0.024	0.012	ppm
05:00 – 06:00	0.008	0.022	0.017	ppm
06:00 – 07:00	0.008	0.023	0.011	ppm
07:00 – 08:00	0.014	0.033	0.017	ppm
08:00 – 09:00	0.019	0.030	0.023	ppm
09:00 – 10:00	0.025	0.019	0.023	ppm
Maximum 1 hr.	0.025	0.036	0.023	ppm
Average 24 hr.	0.015	0.019	0.011	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phantakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA65-R0442

Report No. R6504-1604 – R6504-1610

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีล จำกัด (TPAC)
 PARAMETER* : Nitrogen Dioxide SAMPLE NO. : 06172-06178
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 04-11/04/2022
 INSTRUMENT : Environnement SA. Model AC32e S/N 693 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	07-08/04/2022	08-09/04/2022	09-10/04/2022	UNIT
10:00 – 11:00 ²	0.021	0.024	0.011	ppm
11:00 – 12:00	0.019	0.021	0.009	ppm
12:00 – 13:00	0.013	0.020	0.007	ppm
13:00 – 14:00	0.012	0.029	0.006	ppm
14:00 – 15:00	0.013	0.014	0.006	ppm
15:00 – 16:00	0.032	0.012	0.005	ppm
16:00 – 17:00	0.010	0.007	0.007	ppm
17:00 – 18:00	0.008	0.005	0.006	ppm
18:00 – 19:00	0.009	0.005	0.005	ppm
19:00 – 20:00	0.011	0.007	0.006	ppm
20:00 – 21:00	0.026	0.006	0.006	ppm
21:00 – 22:00	0.029	0.007	0.007	ppm
22:00 – 23:00	0.024	0.015	0.007	ppm
23:00 – 00:00	0.024	0.029	0.005	ppm
00:00 – 01:00	0.025	0.043	0.007	ppm
01:00 – 02:00	0.026	0.023	0.006	ppm
02:00 – 03:00	0.019	0.017	0.006	ppm
03:00 – 04:00	0.014	0.021	0.008	ppm
04:00 – 05:00	0.009	0.017	0.014	ppm
05:00 – 06:00	0.009	0.022	0.010	ppm
06:00 – 07:00	0.013	0.027	0.014	ppm
07:00 – 08:00	0.017	0.047	0.023	ppm
08:00 – 09:00	0.025	0.044	0.028	ppm
09:00 – 10:00	0.024	0.014	0.014	ppm
Maximum 1 hr.	0.032	0.047	0.028	ppm
Average 24 hr.	0.018	0.020	0.009	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photansharn)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

22/04/2022

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Request No. LA65-R0442

Report No. R6504-1604 – R6504-1610

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีทิล จำกัด (TPAC)
 PARAMETER* : Nitrogen Dioxide SAMPLE NO. : 06172-06178
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 04-11/04/2022
 INSTRUMENT : Environnement SA. Model AC32e S/N 693 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	10-11/04/2022	UNIT
10:00 – 11:00 ²	0.006	ppm
11:00 – 12:00	0.006	ppm
12:00 – 13:00	0.005	ppm
13:00 – 14:00	0.004	ppm
14:00 – 15:00	0.004	ppm
15:00 – 16:00	0.004	ppm
16:00 – 17:00	0.004	ppm
17:00 – 18:00	0.004	ppm
18:00 – 19:00	0.003	ppm
19:00 – 20:00	0.004	ppm
20:00 – 21:00	0.004	ppm
21:00 – 22:00	0.003	ppm
22:00 – 23:00	0.004	ppm
23:00 – 00:00	0.003	ppm
00:00 – 01:00	0.003	ppm
01:00 – 02:00	0.004	ppm
02:00 – 03:00	0.003	ppm
03:00 – 04:00	0.003	ppm
04:00 – 05:00	0.003	ppm
05:00 – 06:00	0.003	ppm
06:00 – 07:00	0.003	ppm
07:00 – 08:00	0.003	ppm
08:00 – 09:00	0.003	ppm
09:00 – 10:00	0.003	ppm
Maximum 1 hr.	0.006	ppm
Average 24 hr.	0.004	ppm
Standard (1 hr.) ¹	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0442

Report No. R6504-1618 – R6504-1624

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : โรงเรือนบ้านหนองแฟบ
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 06186-06192
 SAMPLING DATE : 04-11/04/2022
 RECEIVED DATE : 11/04/2022
 REPORTED DATE : 22/04/2022

TIME / DATE	04-05/04/2022	05-06/04/2022	06-07/04/2022	UNIT
11:00 – 12:00 ²	0.010	0.010	0.008	ppm
12:00 – 13:00	0.010	0.010	0.008	ppm
13:00 – 14:00	0.010	0.009	0.007	ppm
14:00 – 15:00	0.010	0.009	0.007	ppm
15:00 – 16:00	0.011	0.009	0.007	ppm
16:00 – 17:00	0.011	0.009	0.007	ppm
17:00 – 18:00	0.011	0.009	0.007	ppm
18:00 – 19:00	0.011	0.009	0.007	ppm
19:00 – 20:00	0.011	0.009	0.007	ppm
20:00 – 21:00	0.011	0.009	0.008	ppm
21:00 – 22:00	0.011	0.009	0.008	ppm
22:00 – 23:00	0.010	0.009	0.008	ppm
23:00 – 00:00	0.010	0.008	0.008	ppm
00:00 – 01:00	0.010	0.008	0.009	ppm
01:00 – 02:00	0.010	0.008	0.009	ppm
02:00 – 03:00	0.010	0.008	0.010	ppm
03:00 – 04:00	0.010	0.008	0.010	ppm
04:00 – 05:00	0.010	0.008	0.010	ppm
05:00 – 06:00	0.010	0.008	0.010	ppm
06:00 – 07:00	0.010	0.008	0.009	ppm
07:00 – 08:00	0.010	0.008	0.009	ppm
08:00 – 09:00	0.010	0.008	0.009	ppm
09:00 – 10:00	0.010	0.008	0.009	ppm
10:00 – 11:00	0.010	0.008	0.009	ppm
Maximum 1 hr.	0.011	0.010	0.010	ppm
Average 24 hr.	0.010	0.009	0.008	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phatankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0442

Report No. R6504-1618 – R6504-1624

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 06186-06192
SAMPLING DATE : 04-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME / DATE	07-08/04/2022	08-09/04/2022	09-10/04/2022	UNIT
11:00 – 12:00 ²	0.009	0.008	0.009	ppm
12:00 – 13:00	0.009	0.009	0.009	ppm
13:00 – 14:00	0.009	0.009	0.009	ppm
14:00 – 15:00	0.009	0.009	0.009	ppm
15:00 – 16:00	0.009	0.009	0.009	ppm
16:00 – 17:00	0.009	0.009	0.009	ppm
17:00 – 18:00	0.009	0.009	0.009	ppm
18:00 – 19:00	0.009	0.009	0.009	ppm
19:00 – 20:00	0.009	0.009	0.009	ppm
20:00 – 21:00	0.009	0.009	0.009	ppm
21:00 – 22:00	0.010	0.009	0.009	ppm
22:00 – 23:00	0.010	0.009	0.009	ppm
23:00 – 00:00	0.009	0.009	0.009	ppm
00:00 – 01:00	0.009	0.009	0.009	ppm
01:00 – 02:00	0.009	0.009	0.009	ppm
02:00 – 03:00	0.009	0.009	0.009	ppm
03:00 – 04:00	0.009	0.009	0.009	ppm
04:00 – 05:00	0.009	0.009	0.009	ppm
05:00 – 06:00	0.008	0.009	0.009	ppm
06:00 – 07:00	0.009	0.009	0.009	ppm
07:00 – 08:00	0.009	0.009	0.009	ppm
08:00 – 09:00	0.008	0.009	0.009	ppm
09:00 – 10:00	0.009	0.008	0.009	ppm
10:00 – 11:00	0.008	0.008	0.009	ppm
Maximum 1 hr.	0.010	0.009	0.009	ppm
Average 24 hr.	0.009	0.009	0.009	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MS. THANATPORN KLINSOPON)

22/04/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0442

Report No. R6504-1618 – R6504-1624

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 06186-06192
SAMPLING DATE : 04-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME / DATE	10-11/04/2022	UNIT
11:00 – 12:00 ²	0.009	ppm
12:00 – 13:00	0.008	ppm
13:00 – 14:00	0.008	ppm
14:00 – 15:00	0.008	ppm
15:00 – 16:00	0.008	ppm
16:00 – 17:00	0.008	ppm
17:00 – 18:00	0.008	ppm
18:00 – 19:00	0.008	ppm
19:00 – 20:00	0.008	ppm
20:00 – 21:00	0.008	ppm
21:00 – 22:00	0.008	ppm
22:00 – 23:00	0.008	ppm
23:00 – 00:00	0.009	ppm
00:00 – 01:00	0.009	ppm
01:00 – 02:00	0.009	ppm
02:00 – 03:00	0.009	ppm
03:00 – 04:00	0.009	ppm
04:00 – 05:00	0.009	ppm
05:00 – 06:00	0.009	ppm
06:00 – 07:00	0.009	ppm
07:00 – 08:00	0.009	ppm
08:00 – 09:00	0.009	ppm
09:00 – 10:00	0.009	ppm
10:00 – 11:00	0.009	ppm
Maximum 1 hr.	0.009	ppm
Average 24 hr.	0.008	ppm
Standard (1 hr.) ¹	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phromkham)



Approved By

(MS. THANATPORN KLINSOPON)

22/04/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Wind Speed & Wind Direction

Request No. LA65-R0442

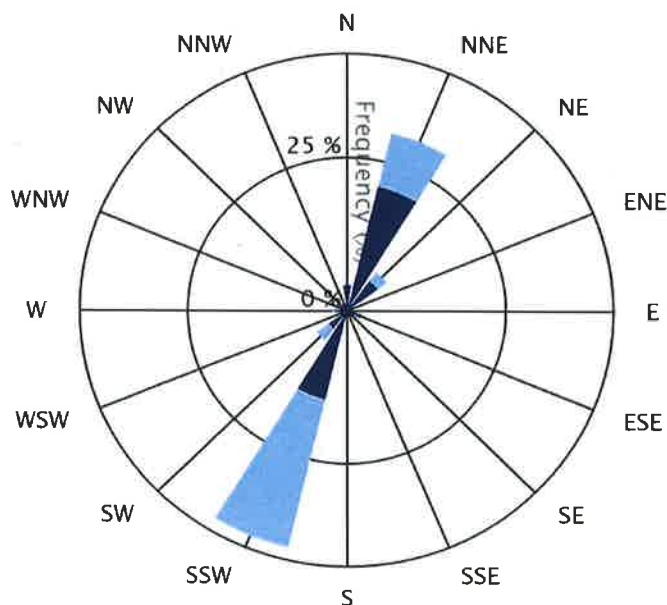
GC Styrenics Company Limited (GCS Plant)

Sample No. 06221

Sampling Source : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)

Sampling Date : April 4-11, 2022

Calm 3.0 %


 0.4-1.9
 2.0-3.9
 4.0-5.9
 6.0-7.9
 8.0-9.9
 > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	4.2	0.0	0.0	0.0	0.0	0.0	4.2
NNE	20.8	8.9	0.0	0.0	0.0	0.0	29.7
NE	6.0	1.8	0.0	0.0	0.0	0.0	7.8
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	2.4	0.0	0.0	0.0	0.0	0.0	2.4
SE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	14.9	25.0	0.0	0.0	0.0	0.0	39.9
SW	3.6	2.4	0.0	0.0	0.0	0.0	6.0
WSW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
W	1.8	0.6	0.0	0.0	0.0	0.0	2.4
WNW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
NW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NNW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Calm	3.0						

Wind Speed & Wind Direction

Request No. LA65-R0442

GC Styrenics Company Limited (GCS Plant)

Sample No. 06221

Sampling Source : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)

Sampling Date : April 4-11, 2022

Time	April 4-5, 2022		April 5-6, 2022		April 6-7, 2022		April 7-8, 2022		April 8-9, 2022		April 9-10, 2022		April 10-11, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	NNE	3.1	NNE	1.3	NNE	2.2	NE	2.7	NNE	0.9	SW	1.8	SSW
11:00-12:00	2.2	NNE	2.7	NE	1.8	NNE	2.2	NNE	2.2	NNE	2.2	SSW	1.8	SSW
12:00-13:00	1.3	NE	2.7	NNE	1.8	SW	1.8	NE	1.3	ESE	2.7	SSW	2.2	SSW
13:00-14:00	2.2	SSW	1.8	NNE	2.2	SSW	2.2	NE	2.7	SSW	2.7	SSW	2.7	SSW
14:00-15:00	3.1	SSW	1.8	SE	3.6	SSW	1.8	NNE	3.6	SSW	3.1	SSW	2.7	SSW
15:00-16:00	3.1	SSW	1.8	SE	3.6	SSW	1.8	SSW	3.1	SSW	3.1	SSW	2.7	SSW
16:00-17:00	2.7	SSW	2.7	SSW	3.6	SSW	2.2	SSW	3.1	SW	2.7	SSW	2.7	SSW
17:00-18:00	2.7	SSW	2.7	SSW	3.6	SSW	2.7	SSW	3.1	SW	2.7	SSW	2.7	SSW
18:00-19:00	2.7	SSW	1.8	SSW	2.7	SSW	1.8	SSW	2.2	SW	2.2	SW	2.2	SSW
19:00-20:00	1.3	SSW	2.2	W	1.8	SSW	0.9	SW	1.8	SSW	1.8	SW	1.8	SSW
20:00-21:00	0.4	ESE	1.3	W	1.8	SSW	0.4	N	1.8	SSW	2.2	SSW	1.8	SSW
21:00-22:00	0.4	NE	1.3	W	1.3	SSW	0.4	N	1.3	SW	1.8	SSW	1.8	SSW
22:00-23:00	0.9	ESE	0.4	W	1.3	SSW	0.9	N	0.4	WSW	1.3	SSW	1.8	SSW
23:00-00:00	1.3	NE	0.4	WNW	1.3	SSW	1.3	NNE	0.4	N	1.3	SSW	2.2	SSW
00:00-01:00	1.3	NE	0.4	NW	0.9	NNE	1.3	NNE	0.4	NNE	1.8	SSW	1.8	SSW
01:00-02:00	1.8	NNE	0.4	NNE	0.9	NNE	1.8	NE	0.9	NNE	1.8	SSW	1.8	SSW
02:00-03:00	1.8	NNE	0.9	NE	0.9	NNE	1.8	NNE	0.4	NNE	1.3	SW	2.2	SSW
03:00-04:00	2.2	NNE	0.4	NNW	0.4	NNE	1.8	NNE	0.9	NNE	0.4	NNW	2.7	SSW
04:00-05:00	2.2	NNE	0.9	NNE	0.4	N	2.2	NNE	0.9	NNE	0.9	NNE	2.2	SSW
05:00-06:00	2.2	NNE	0.9	NE	0.0	-	1.8	NNE	0.0	-	0.9	NNE	2.2	SSW
06:00-07:00	1.8	NNE	0.4	NNE	0.4	NNE	1.8	NNE	0.0	-	0.4	NE	2.2	SSW
07:00-08:00	1.8	NNE	0.9	N	0.9	NNE	2.2	NNE	0.0	-	0.9	NNE	2.2	SSW
08:00-09:00	2.2	NNE	0.9	NNE	1.3	N	2.7	NNE	0.0	-	0.4	NNE	2.2	SSW
09:00-10:00	3.1	NNE	1.3	NNE	1.8	NE	3.1	NNE	0.9	WNW	0.9	ESE	1.8	SSW

Wind Speed & Wind Direction

Request No. LA65-R0442

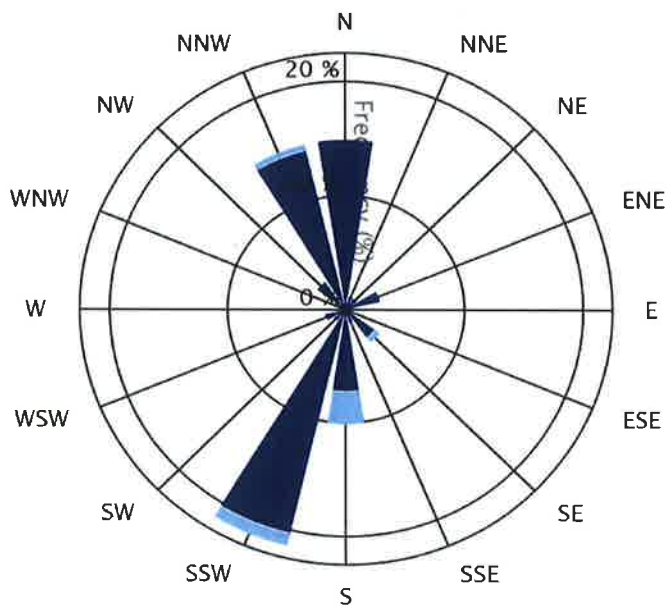
GC Styrenics Company Limited (GCS Plant)

Sample No. 06222

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : April 4-11, 2022

Calm 21.4 %


 0.4-1.9
 2.0-3.9
 4.0-5.9
 6.0-7.9
 8.0-9.9
 > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	14.9	0.0	0.0	0.0	0.0	0.0	14.9
NNE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
NE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
ENE	3.0	0.0	0.0	0.0	0.0	0.0	3.0
E	0.6	0.0	0.0	0.0	0.0	0.0	0.6
ESE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SE	3.0	0.6	0.0	0.0	0.0	0.0	3.6
SSE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
S	7.1	3.0	0.0	0.0	0.0	0.0	10.1
SSW	20.2	1.2	0.0	0.0	0.0	0.0	21.4
SW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
WSW	1.8	0.0	0.0	0.0	0.0	0.0	1.8
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	3.0	0.0	0.0	0.0	0.0	0.0	3.0
NNW	14.3	0.6	0.0	0.0	0.0	0.0	14.9
Calm	21.4						

Wind Speed & Wind Direction

Request No. LA65-R0442

GC Styrenics Company Limited (GCS Plant)

Sample No. 06222

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : April 4-11, 2022

Time	April 4-5, 2022		April 5-6, 2022		April 6-7, 2022		April 7-8, 2022		April 8-9, 2022		April 9-10, 2022		April 10-11, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
11:00-12:00	1.3	NNW	1.8	N	0.9	SSW	1.3	ENE	1.3	N	1.8	NW	1.3	S
12:00-13:00	1.3	N	1.8	NNE	1.3	SE	1.8	ENE	1.3	SE	1.8	NNW	1.3	SSW
13:00-14:00	1.3	S	1.8	N	2.2	S	1.3	ENE	2.2	SSW	1.8	NNW	1.8	SSW
14:00-15:00	2.2	S	2.2	SE	2.2	SSW	1.3	NE	1.8	SSW	1.3	NNW	1.8	SSW
15:00-16:00	2.2	S	1.8	SE	2.7	S	1.3	SSW	1.8	SSW	1.3	NW	1.8	SSW
16:00-17:00	1.8	S	1.8	S	1.8	S	1.3	SSW	1.8	SW	1.3	NNW	1.8	SSW
17:00-18:00	1.3	S	1.8	SSW	2.2	S	1.8	SSW	1.3	SW	1.3	NNW	1.8	SSW
18:00-19:00	1.3	SE	1.3	S	1.8	SSW	1.3	SSW	1.3	SSW	1.3	NNW	1.3	SSW
19:00-20:00	0.4	S	0.4	WSW	1.3	SSW	0.9	SSW	0.4	SSW	1.3	NNW	1.3	SSW
20:00-21:00	0.4	SE	0.0	-	1.3	SSW	0.0	-	0.0	-	1.3	NNW	0.9	SSW
21:00-22:00	0.0	-	0.0	-	0.9	SSW	0.0	-	0.0	-	1.3	NNW	0.9	S
22:00-23:00	0.9	ENE	0.0	-	0.4	SSW	0.4	WSW	0.0	-	1.3	NNW	0.9	SSE
23:00-00:00	0.9	NNW	0.0	-	0.0	-	0.9	N	0.0	-	1.3	NNW	0.9	SSE
00:00-01:00	1.3	N	0.0	-	0.0	-	0.9	N	0.0	-	1.3	N	1.3	S
01:00-02:00	0.9	NNW	0.0	-	0.0	-	1.3	N	0.0	-	1.3	NW	0.9	SSW
02:00-03:00	1.3	N	0.0	-	0.0	-	1.3	N	0.0	-	1.3	NNW	1.3	SSW
03:00-04:00	1.3	NNW	0.0	-	0.0	-	0.9	N	0.0	-	1.3	NNW	1.3	SSW
04:00-05:00	1.3	N	0.0	-	0.0	-	1.3	N	0.0	-	1.3	NW	0.9	SSW
05:00-06:00	1.3	N	0.0	-	0.0	-	1.3	NNE	0.0	-	1.3	NW	1.3	SSW
06:00-07:00	1.3	N	0.0	-	0.0	-	1.3	N	0.0	-	1.3	NNW	0.9	S
07:00-08:00	1.3	N	0.4	NNW	0.0	-	1.3	N	0.0	-	1.3	NNW	1.3	S
08:00-09:00	1.3	NNW	0.4	SSW	0.4	WSW	1.3	N	0.0	-	1.8	NNW	1.3	SSW
09:00-10:00	1.8	N	0.9	ESE	1.8	E	1.3	N	0.9	N	1.8	NNW	1.3	SSW
10:00-11:00	1.8	N	0.9	NE	1.8	ENE	1.3	N	2.2	NNW	1.3	NNW	1.8	SSW

ผลการทดสอบคุณภาพน้ำทิ้ง

Test Report

Request No : W6501550

Report No : 6502-0526

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65011999

Sample Name : จุกระบายน้ำทิ้งจาก Office & Canteen

Sampling Date : 28/01/2022

Sampling By : ETC

Sampling Time : 8:33 AM

Sampling Method : Grab

Received Date : 29/01/2022

Tested Date : 31/01/2022 - 08/02/2022

Reported Date : 08/02/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	8.9	≤ 20	≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	48	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Method	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Method	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric	7.5	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field	28	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

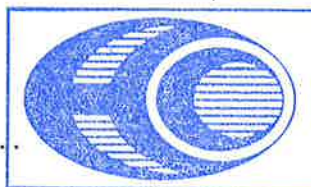
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

08/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

08/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6502087

Report No : 6502-0988

Customer : GC Styrenics Company Limited*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150*

Sampling Source : GCS Plant*

Sample No : W 65020337

Sample Name : จุติระบายน้ำทิ้งจาก Office & Canteen*

Sampling Date : 02/02/2022*

Sampling By : ETC*

Sampling Time : 9:10 AM*

Sampling Method : Grab*

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 11/02/2022

Reported Date : 17/02/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric	8.0	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field	32	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	9	≤ 50	≤ 50

Physical Apperance : 1. Sample : slightly - orange, lightly SS
2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthance Saiphan (จ-003-ท-7281)*

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ท-4377)
17/02/2022



Approved By :

(Mr. Kawee Suthasub)
(จ-003-ท-2205)
17/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Test Report

Request No : W6503076

Report No : 6503-1107

Customer : GC Styrenics Company Limited*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150*

Sampling Source : GCS Plant*

Sample No : W 65030349

Sample Name : จุดระบายน้ำทั้งจาก Office & Canteen*

Sampling Date : 02/03/2022*

Sampling By : ETC*

Sampling Time : 8:55 AM*

Sampling Method : Grab*

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 09/03/2022

Reported Date : 15/03/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.2	≤ 20	≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	27	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	31	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤50

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

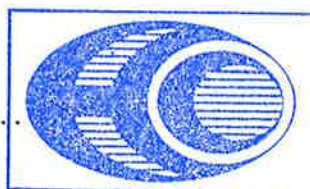
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ท-5637)*

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

15/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6504135

Report No : 6504-1759

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65040600

Sample Name : จุฑระบายน้ำทิ้งจาก Office & Canteen**

Sampling Date : 05/04/2022**

Sampling By : ETC**

Sampling Time : 9:00 AM**

Sampling Method : Grab**

Received Date : 06/04/2022

Tested Date : 06/04/2022 - 18/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.8	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.2	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	29	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤ 50	≤50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (จ-003-จ-8334)*

6. ** = These data are non laboratory data

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

27/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6505110

Report No : 6505-1728

Customer : GC Styrenics Company Limited**

Address : 7 I-I Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65050478

Sample Name : จุติระบายน้ำทิ้งจาก Office & Canteen**

Sampling Date : 05/05/2022**

Sampling By : ETC**

Sampling Time : 8:40 AM**

Sampling Method : Grab**

Received Date : 06/05/2022

Tested Date : 06/05/2022 - 17/05/2022

Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.8	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	29	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤ 50

Physical Appearance : 1. Sample : slightly - orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (จ-003-จ-8334)*

6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

24/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

24/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W 6506495

Report No : 6506-2146

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65061755

Sample Name : จุติระบายน้ำทิ้งจาก Office & Canteen**

Sampling Date : 18/06/2022**

Sampling By : ETC**

Sampling Time : 9:15 AM**

Sampling Method : Grab**

Received Date : 20/06/2022

Tested Date : 20/06/2022 - 27/06/2022

Reported Date : 29/06/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.7		≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40		≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20		≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20		≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0		≤5
pH (on site) *		Electrometric Method	7.6		5.5-9.0
Temperature *	°C	Laboratory and Field Method	31		≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5		≤50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ท-7279)*

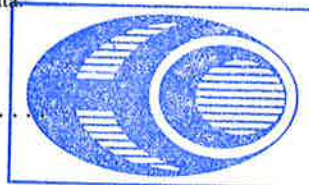
6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mrs. Wanpen Lhaochindawat)

(จ-003-ท-2183)

29/06/2022

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Test Report

Request No : W6501235

Report No : 6501-1466

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65011036

Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process) Sampling Date : 12/01/2022

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 13/01/2022

Tested Date : 13/01/2022 - 21/01/2022

Reported Date : 22/01/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	61	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Method	94	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Method	57	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric	7.8	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field	32	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	< 5	≤ 50	≤ 50

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L* [2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
22/01/2022



Approved By :

(Mr. Kawee Suthasub)
(จ-003-ค-2205)
22/01/2022

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Test Report

Request No : W6501235

Report No : 6501-1466

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65011036

Sample Name : จุละบายน้ำทิ้งจาก Process (Effluent From Process) Sampling Date : 12/01/2022

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 13/01/2022

Tested Date : 13/01/2022 - 21/01/2022

Reported Date : 22/01/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L [2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

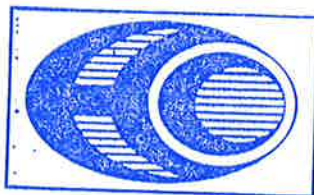
Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

5. Sampling By Miss Pompinan Viriyakusolkul (ว-003-ท-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

22/01/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6502087

Report No : 6502-0989

Customer : GC Styrenics Company Limited*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150*

Sampling Source : GCS Plant*

Sample No : W 65020338

Sample Name : จุละบายน้ำทิ้งจาก Process (Effluent From Process)* Sampling Date : 02/02/2022*

Sampling By : ETC*

Sampling Time : 8:55 AM*

Sampling Method : Grab*

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 11/02/2022

Reported Date : 17/02/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	32	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	33	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric	7.2	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field	33	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	< 5	≤ 50	≤50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

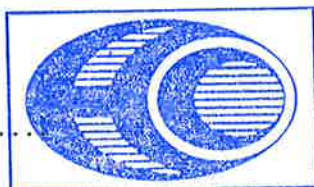
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

17/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

17/02/2022

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Test Report

Request No : W6502087

Report No : 6502 - 0989

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65020338

Sample Name : จุลินทรีย์น้ำทิ้งจาก Process (Effluent From Process) Sampling Date : 02/02/2022

Sampling By : ETC

Sampling Time : 8:55 AM

Sampling Method : Grab

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 11/02/2022

Reported Date : 17/02/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

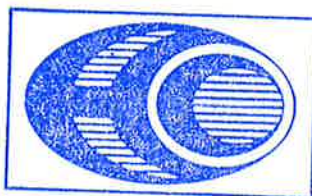
Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

5. Sampling By Miss Janthanee Saiphan (จ-003-ท-7281)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

17/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6503076

Report No : 6503-1108

Customer : GC Styrenics Company Limited*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150*

Sampling Source : GCS Plant*

Sample No : W 65030350

Sample Name : จุละปนน้ำทิ้งจาก Process (Effluent from Process)* Sampling Date : 02/03/2022*

Sampling By : ETC*

Sampling Time : 8:30 AM*

Sampling Method : Grab*

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 14/03/2022

Reported Date : 15/03/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	10.7	≤ 20	≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	54	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	31	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	29	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.5	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	6	≤ 50	≤50

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

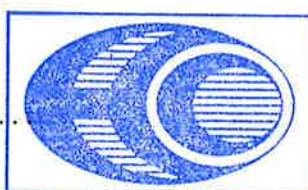
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ท-5637)*

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ท-4377)
15/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-ท-2205)
15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6503076

Report No : 6503 - 1108

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant*

Sample No : W 65030350

Sample Name : จุลินทรีย์น้ำทิ้งจาก Process (Effluent from Process) Sampling Date : 02/03/2022

Sampling By : ETC

Sampling Time : 8:30 AM

Sampling Method : Grab*

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 14/03/2022

Reported Date : 15/03/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Ethylbenzene #	mg/l	US EPA 5030C/8260C	0.0002	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Styrene monomer = < 0.0002 mg/l)

5. Sampling By Mr. Supharerk Phatklang (๓-๐๐3-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

15/03/2022

Test Report

Request No : W6504135

Report No : 6504-1760

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65040601

Sample Name : จุลระบายน้ำทิ้งจาก Process (Effluent From Process)**

Sampling Date : 05/04/2022**

Sampling By : ETC**

Sampling Time : 8:40 AM**

Sampling Method : Grab**

Received Date : 06/04/2022

Tested Date : 06/04/2022 - 22/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	6.9	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤ 50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pormpinan Viriyakusolkul (จ-003-จ-8334)*

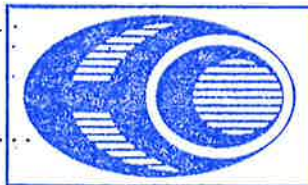
6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-จ-4377)

27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-จ-2205)

27/04/2022

Test Report

Request No : W6504135

Report No : 6504 - 1760

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65040601

Sample Name : จุกระบายน้ำทิ้งจาก Process (Effluent From Process) Sampling Date : 05/04/2022

Sampling By : ETC

Sampling Time : 8:40 AM

Sampling Method : Grab

Received Date : 06/04/2022

Tested Date : 06/04/2022 - 22/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

5. Sampling By Miss Pornpinan Viriyakusolkul (๖-003-๖-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

27/04/2022

Test Report

Request No : W6505110

Report No : 6505-1729

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65050479

Sample Name : จุละปนน้ำทิ้งจาก Process (Effluent from process)**

Sampling Date : 05/05/2022**

Sampling By : ETC**

Sampling Time : 8:20 AM**

Sampling Method : Grab**

Received Date : 06/05/2022

Tested Date : 06/05/2022 - 20/05/2022

Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	41	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	43	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.8	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	29	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤ 50

Physical Appearance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

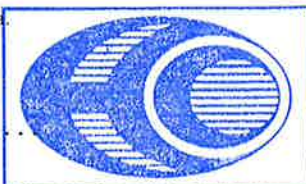
6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

24/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

24/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6505110

Report No : 6505-1729

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65050479

Sample Name : จุละปนน้ำทิ้งจาก Process (Effluent from process)

Sampling Date : 05/05/2022

Sampling By : ETC

Sampling Time : 8:20 AM

Sampling Method : Grab

Received Date : 06/05/2022

Tested Date : 06/05/2022 - 20/05/2022

Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

5. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

24/05/2022

Test Report

Request No : W6506043

Report No : 6506-1138

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65060175

Sample Name : จุละบายน้ำทิ้งจาก Process (Effluent from Process)**

Sampling Date : 01/06/2022**

Sampling By : ETC**

Sampling Time : 8:40 AM**

Sampling Method : Grab**

Received Date : 02/06/2022

Tested Date : 02/06/2022 - 13/06/2022

Reported Date : 17/06/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0		≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40		≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	30		≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	32		≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0		≤5
pH (on site) *		Electrometric Method	7.4		5.5-9.0
Temperature *	°C	Laboratory and Field Method	31		≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5		≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ท-7280)*

6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

17/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

17/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6506043

Report No : 6506 - 1138

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65060175

Sample Name : จุติระบายน้ำทิ้งจาก Process (Effluent from Process) Sampling Date : 01/06/2022

Sampling By : ETC

Sampling Time : 8:40 AM

Sampling Method : Grab

Received Date : 02/06/2022

Tested Date : 02/06/2022 - 13/06/2022

Reported Date : 17/06/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

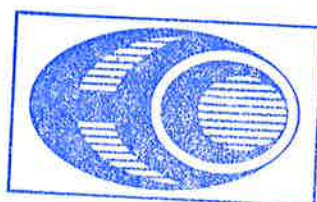
Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

5. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

17/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6501467

Report No : 6502-0524

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65011765

Sample Name : Cooling Tower GPPS

Sampling Date : 24/01/2022

Sampling By : ETC

Sampling Time : 9:20 AM

Sampling Method : Grab

Received Date : 25/01/2022

Tested Date : 25/01/2022 - 31/01/2022

Reported Date : 08/02/2022

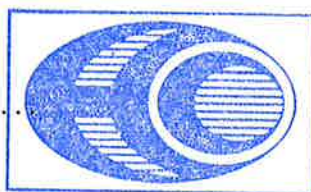
Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	2.7		≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	< 40		≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Method	< 20		≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Method	< 20		≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0		≤5
pH (on site) *		Electrometric	7.6		5.5-9.0
Temperature *	°C	Laboratory and Field	30		≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	< 5		≤50

Physical Appearance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,
Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (จ-003-จ-8334)*

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-จ-4377)
08/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-จ-2205)
08/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Test Report

Request No : W6502087

Report No : 6502-0990

Customer : GC Styrenics Company Limited*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150*

Sampling Source : GCS Plant*

Sample No : W 65020339

Sample Name : Cooling Tower GPPS*

Sampling Date : 02/02/2022*

Sampling By : ETC*

Sampling Time : 9:05 AM*

Sampling Method : Grab*

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 09/02/2022

Reported Date : 17/02/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540D)	< 5	≤ 50	≤ 50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Jantane Saiphan (จ-003-ก-7281)*

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
17/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
17/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6503076

Report No : 6503-1109

Customer : GC Styrenics Company Limited*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150*

Sampling Source : GCS Plant*

Sample No : W 65030351

Sample Name : Cooling Tower GPPS*

Sampling Date : 02/03/2022*

Sampling By : ETC*

Sampling Time : 8:45 AM*

Sampling Method : Grab*

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 09/03/2022

Reported Date : 15/03/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	23	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	27	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	8.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤ 50	≤ 50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

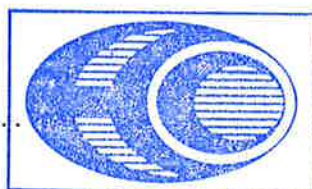
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-จ-5637)*

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-จ-4377)
15/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-จ-2205)
15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Test Report

Request No : W6504135

Report No : 6504-1761

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65040602

Sample Name : Cooling Tower GPPS**

Sampling Date : 05/04/2022**

Sampling By : ETC**

Sampling Time : 8:53 AM**

Sampling Method : Grab**

Received Date : 06/04/2022

Tested Date : 06/04/2022 - 18/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	10	≤ 50	≤ 50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ก-8334)*

6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

27/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6505110

Report No : 6505-1730

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65050480

Sample Name : Cooling Tower GPPS**

Sampling Date : 05/05/2022**

Sampling By : ETC**

Sampling Time : 8:36 AM**

Sampling Method : Grab**

Received Date : 06/05/2022

Tested Date : 06/05/2022 - 14/05/2022

Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	8.0	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤ 40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	6	≤ 50	≤ 50

Physical Appearance : 1. Sample : slightly - white, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ท-8334)*

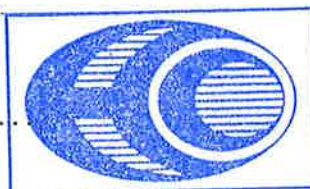
6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

24/05/2022



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

24/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6506043

Report No : 6506-1139

Customer : GC Styrenics Company Limited**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GCS Plant**

Sample No : W 65060176

Sample Name : Cooling Tower GPPS**

Sampling Date : 01/06/2022**

Sampling By : ETC**

Sampling Time : 8:50 AM**

Sampling Method : Grab**

Received Date : 02/06/2022

Tested Date : 02/06/2022 - 09/06/2022

Reported Date : 17/06/2022

Parameter	Unit	Method	Result	Standard ²	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.0	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	33	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤ 50	≤50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

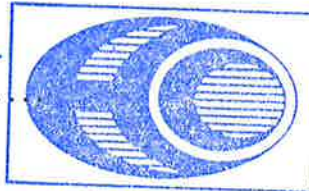
4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280)*

6. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
17/06/2022



Approved By :

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
17/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

ผลการตรวจวัดระดับเสียงโดยทั่วไป

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2
SAMPLE NO. : 06193
MEASURING DATE : 04-05/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ³	61.2	71.5	59.7	dB(A)
11:00 – 12:00	60.1	73.3	58.0	dB(A)
12:00 – 13:00	59.4	73.3	57.4	dB(A)
13:00 – 14:00	61.6	70.6	60.2	dB(A)
14:00 – 15:00	61.6	71.1	60.2	dB(A)
15:00 – 16:00	60.9	69.9	59.5	dB(A)
16:00 – 17:00	61.1	69.4	59.6	dB(A)
17:00 – 18:00	62.5	70.9	60.9	dB(A)
18:00 – 19:00	62.9	75.6	61.3	dB(A)
19:00 – 20:00	61.7	71.9	59.9	dB(A)
20:00 – 21:00	61.7	74.3	59.9	dB(A)
21:00 – 22:00	62.0	70.5	60.9	dB(A)
22:00 – 23:00	62.1	68.1	60.6	dB(A)
23:00 – 00:00	60.7	69.5	59.7	dB(A)
00:00 – 01:00	60.5	66.5	59.7	dB(A)
01:00 – 02:00	61.2	66.1	60.1	dB(A)
02:00 – 03:00	61.4	74.1	60.2	dB(A)
03:00 – 04:00	60.6	71.3	59.8	dB(A)
04:00 – 05:00	61.0	69.9	60.0	dB(A)
05:00 – 06:00	61.5	72.0	60.5	dB(A)
06:00 – 07:00	63.7	78.8	61.7	dB(A)
07:00 – 08:00	63.6	78.1	61.2	dB(A)
08:00 – 09:00	62.2	71.6	59.8	dB(A)
09:00 – 10:00	62.6	77.5	60.4	dB(A)
L_{eq} 24 hr.	61.7	-	-	dB(A)
$L_{dn\#}$	68.0	-	-	dB(A)
Maximum	-	78.8	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ³ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhun)

^{1/3} Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1626

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2

SAMPLE NO. : 06194
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 ($L_{90\%}$)	UNIT
10:00 – 11:00 ^{1/3}	61.9	72.2	60.4	dB(A)
11:00 – 12:00	61.0	76.5	58.9	dB(A)
12:00 – 13:00	59.5	68.1	57.7	dB(A)
13:00 – 14:00	61.3	69.8	59.6	dB(A)
14:00 – 15:00	62.3	77.0	60.3	dB(A)
15:00 – 16:00	60.8	69.8	59.3	dB(A)
16:00 – 17:00	61.5	72.1	60.0	dB(A)
17:00 – 18:00	62.1	70.6	60.3	dB(A)
18:00 – 19:00	62.6	76.8	60.4	dB(A)
19:00 – 20:00	60.9	67.8	59.5	dB(A)
20:00 – 21:00	62.1	71.9	60.6	dB(A)
21:00 – 22:00	61.2	73.6	60.0	dB(A)
22:00 – 23:00	61.2	68.5	60.0	dB(A)
23:00 – 00:00	60.3	69.1	59.6	dB(A)
00:00 – 01:00	61.1	68.8	59.9	dB(A)
01:00 – 02:00	60.6	64.6	59.7	dB(A)
02:00 – 03:00	61.2	66.9	59.9	dB(A)
03:00 – 04:00	59.9	65.6	59.4	dB(A)
04:00 – 05:00	60.9	65.3	59.7	dB(A)
05:00 – 06:00	61.7	69.9	60.1	dB(A)
06:00 – 07:00	63.3	73.6	61.2	dB(A)
07:00 – 08:00	62.5	76.8	60.0	dB(A)
08:00 – 09:00	61.7	81.3	58.8	dB(A)
09:00 – 10:00	60.9	69.7	59.9	dB(A)
L_{eq} 24 hr.	61.4	-	-	dB(A)
$L_{dn\#}$	67.7	-	-	dB(A)
Maximum	-	81.3	-	dB(A)
Standard	70 ^{1/} , 70 ^{2/}	115 ^{1/} , 115 ^{2/}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

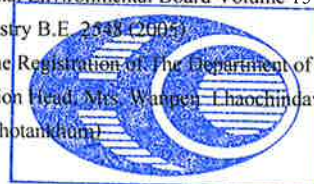
^{1/} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{2/} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photanadum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1627

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 71-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2

SAMPLE NO. : 06195
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ³	62.1	68.6	60.9	dB(A)
11:00 – 12:00	60.1	68.4	58.4	dB(A)
12:00 – 13:00	59.4	71.5	58.0	dB(A)
13:00 – 14:00	61.2	72.3	59.6	dB(A)
14:00 – 15:00	62.0	73.1	60.5	dB(A)
15:00 – 16:00	61.2	69.9	60.0	dB(A)
16:00 – 17:00	61.4	70.8	59.9	dB(A)
17:00 – 18:00	62.5	75.4	60.9	dB(A)
18:00 – 19:00	62.9	79.4	61.3	dB(A)
19:00 – 20:00	61.1	72.3	59.8	dB(A)
20:00 – 21:00	61.0	71.7	59.9	dB(A)
21:00 – 22:00	61.6	72.1	60.2	dB(A)
22:00 – 23:00	61.6	67.8	60.1	dB(A)
23:00 – 00:00	60.3	68.8	59.7	dB(A)
00:00 – 01:00	61.7	83.7	60.1	dB(A)
01:00 – 02:00	60.2	66.2	59.7	dB(A)
02:00 – 03:00	61.3	64.5	60.1	dB(A)
03:00 – 04:00	60.5	63.8	59.9	dB(A)
04:00 – 05:00	62.0	70.7	60.8	dB(A)
05:00 – 06:00	61.4	73.2	60.3	dB(A)
06:00 – 07:00	63.7	75.6	60.9	dB(A)
07:00 – 08:00	63.6	83.2	61.0	dB(A)
08:00 – 09:00	63.6	77.1	60.8	dB(A)
09:00 – 10:00	63.7	75.7	61.7	dB(A)
L_{eq} 24 hr.	61.8	-	-	dB(A)
$L_{dn\#}$	68.0	-	-	dB(A)
Maximum	-	83.7	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1628

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2
SAMPLE NO. : 06196
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 ($L_{90\%}$)	UNIT
10:00 – 11:00 ¹³	62.3	70.2	60.3	dB(A)
11:00 – 12:00	60.6	71.2	58.3	dB(A)
12:00 – 13:00	58.9	71.8	57.1	dB(A)
13:00 – 14:00	61.3	73.7	58.8	dB(A)
14:00 – 15:00	65.3	77.8	60.3	dB(A)
15:00 – 16:00	61.6	72.8	60.0	dB(A)
16:00 – 17:00	61.7	71.2	60.1	dB(A)
17:00 – 18:00	62.0	75.4	60.1	dB(A)
18:00 – 19:00	62.9	74.5	61.2	dB(A)
19:00 – 20:00	61.8	71.5	60.2	dB(A)
20:00 – 21:00	62.1	73.0	60.6	dB(A)
21:00 – 22:00	62.1	73.0	60.5	dB(A)
22:00 – 23:00	61.6	68.0	60.4	dB(A)
23:00 – 00:00	61.1	69.8	60.2	dB(A)
00:00 – 01:00	61.1	76.0	59.9	dB(A)
01:00 – 02:00	61.4	67.4	60.1	dB(A)
02:00 – 03:00	61.3	68.9	60.1	dB(A)
03:00 – 04:00	60.3	65.1	59.7	dB(A)
04:00 – 05:00	61.0	66.4	59.9	dB(A)
05:00 – 06:00	61.4	70.9	60.1	dB(A)
06:00 – 07:00	63.7	78.2	61.3	dB(A)
07:00 – 08:00	62.5	76.6	60.0	dB(A)
08:00 – 09:00	61.9	76.4	59.0	dB(A)
09:00 – 10:00	61.2	71.2	59.5	dB(A)
L_{eq} 24 hr.	61.9	-	-	dB(A)
$L_{dn\#}$	68.0	-	-	dB(A)
Maximum	-	78.2	-	dB(A)
Standard	70^{11} , 70^{12}	115^{11} , 115^{12}	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

¹² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY



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ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1629

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2

SAMPLE NO. : 06197
MEASURING DATE : 08-09/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	08-09/04/2022 (L_{eq})	08-09/04/2022 (L_{max})	08-09/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ³	61.2	73.6	59.2	dB(A)
11:00 – 12:00	60.1	70.1	58.0	dB(A)
12:00 – 13:00	59.8	69.0	58.0	dB(A)
13:00 – 14:00	60.9	69.7	58.9	dB(A)
14:00 – 15:00	61.6	79.1	59.7	dB(A)
15:00 – 16:00	60.6	70.6	58.8	dB(A)
16:00 – 17:00	60.7	70.8	58.8	dB(A)
17:00 – 18:00	60.9	72.4	59.1	dB(A)
18:00 – 19:00	60.9	81.2	58.3	dB(A)
19:00 – 20:00	59.9	74.1	58.0	dB(A)
20:00 – 21:00	59.7	76.7	57.8	dB(A)
21:00 – 22:00	59.7	69.4	58.6	dB(A)
22:00 – 23:00	58.9	69.2	57.3	dB(A)
23:00 – 00:00	58.4	65.8	57.5	dB(A)
00:00 – 01:00	58.5	66.2	57.5	dB(A)
01:00 – 02:00	58.7	65.7	57.3	dB(A)
02:00 – 03:00	58.5	67.1	57.5	dB(A)
03:00 – 04:00	58.3	70.0	57.4	dB(A)
04:00 – 05:00	58.7	68.9	57.5	dB(A)
05:00 – 06:00	59.2	66.2	58.2	dB(A)
06:00 – 07:00	61.6	75.2	58.7	dB(A)
07:00 – 08:00	61.1	77.5	56.7	dB(A)
08:00 – 09:00	58.2	69.9	55.9	dB(A)
09:00 – 10:00	58.9	72.8	55.8	dB(A)
L_{eq} 24 hr.	59.9	-	-	dB(A)
$L_{dn\#}$	65.7	-	-	dB(A)
Maximum	-	81.2	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

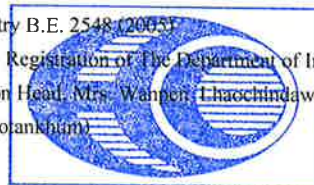
¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photanham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

³ Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2
SAMPLE NO. : 06198
MEASURING DATE : 09-10/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	09-10/04/2022 (L_{eq})	09-10/04/2022 (L_{max})	09-10/04/2022 ($L_{90\%}$)	UNIT
10:00 – 11:00 ^{1/3}	57.8	71.4	56.1	dB(A)
11:00 – 12:00	57.5	69.4	56.0	dB(A)
12:00 – 13:00	57.3	69.1	55.7	dB(A)
13:00 – 14:00	57.2	69.0	55.6	dB(A)
14:00 – 15:00	57.8	71.2	56.0	dB(A)
15:00 – 16:00	58.1	69.1	56.0	dB(A)
16:00 – 17:00	58.6	74.2	56.4	dB(A)
17:00 – 18:00	58.4	72.3	56.4	dB(A)
18:00 – 19:00	59.6	77.0	57.2	dB(A)
19:00 – 20:00	58.5	68.9	56.9	dB(A)
20:00 – 21:00	58.9	74.4	57.4	dB(A)
21:00 – 22:00	58.5	76.4	57.4	dB(A)
22:00 – 23:00	58.1	65.8	57.3	dB(A)
23:00 – 00:00	58.3	65.4	57.6	dB(A)
00:00 – 01:00	58.6	74.7	57.6	dB(A)
01:00 – 02:00	58.6	65.2	57.9	dB(A)
02:00 – 03:00	58.9	67.7	58.0	dB(A)
03:00 – 04:00	58.9	68.7	57.8	dB(A)
04:00 – 05:00	59.6	71.1	57.9	dB(A)
05:00 – 06:00	59.9	71.8	58.7	dB(A)
06:00 – 07:00	61.3	74.2	59.0	dB(A)
07:00 – 08:00	61.6	77.6	58.4	dB(A)
08:00 – 09:00	60.3	75.7	58.2	dB(A)
09:00 – 10:00	61.5	77.9	59.1	dB(A)
L_{eq} 24 hr.	59.1	-	-	dB(A)
$L_{dn\#}$	65.6	-	-	dB(A)
Maximum	-	77.9	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

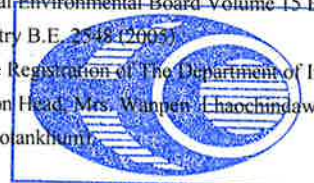
^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)

^{1/3} Start Time



Approved By...

(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2
SAMPLE NO. : 06199
MEASURING DATE : 10-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	10-11/04/2022 (L_{eq})	10-11/04/2022 (L_{max})	10-11/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ³	61.9	75.5	59.3	dB(A)
11:00 – 12:00	60.7	76.7	58.6	dB(A)
12:00 – 13:00	59.6	69.6	58.2	dB(A)
13:00 – 14:00	60.3	72.7	58.3	dB(A)
14:00 – 15:00	60.3	71.1	58.6	dB(A)
15:00 – 16:00	59.9	67.1	58.4	dB(A)
16:00 – 17:00	61.1	72.3	59.3	dB(A)
17:00 – 18:00	61.0	70.4	59.6	dB(A)
18:00 – 19:00	61.2	74.9	59.7	dB(A)
19:00 – 20:00	61.1	75.0	60.0	dB(A)
20:00 – 21:00	61.3	69.5	60.3	dB(A)
21:00 – 22:00	61.2	71.4	60.0	dB(A)
22:00 – 23:00	61.2	71.9	60.2	dB(A)
23:00 – 00:00	60.8	72.8	59.9	dB(A)
00:00 – 01:00	60.6	66.9	59.9	dB(A)
01:00 – 02:00	60.9	64.9	60.1	dB(A)
02:00 – 03:00	62.0	66.7	61.2	dB(A)
03:00 – 04:00	61.0	68.2	60.3	dB(A)
04:00 – 05:00	61.4	68.6	60.4	dB(A)
05:00 – 06:00	62.1	68.6	60.9	dB(A)
06:00 – 07:00	63.8	78.6	61.3	dB(A)
07:00 – 08:00	63.1	76.1	61.0	dB(A)
08:00 – 09:00	62.4	74.2	60.1	dB(A)
09:00 – 10:00	63.2	73.3	61.5	dB(A)
L_{eq} 24 hr.	61.5	-	-	dB(A)
$L_{dn\#}$	68.0	-	-	dB(A)
Maximum	-	78.6	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ³ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

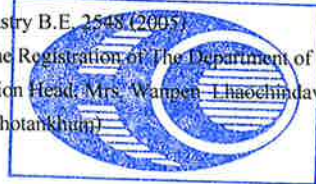
¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2
SAMPLE NO. : 06200
MEASURING DATE : 04-05/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹⁾	57.6	74.2	55.5	dB(A)
10:00 – 11:00	56.1	65.8	54.1	dB(A)
11:00 – 12:00	57.1	64.3	54.8	dB(A)
12:00 – 13:00	59.4	66.9	56.7	dB(A)
13:00 – 14:00	60.4	67.7	58.8	dB(A)
14:00 – 15:00	60.0	65.4	58.3	dB(A)
15:00 – 16:00	60.1	72.1	58.4	dB(A)
16:00 – 17:00	60.0	69.3	58.4	dB(A)
17:00 – 18:00	60.7	66.3	59.3	dB(A)
18:00 – 19:00	60.7	71.3	59.1	dB(A)
19:00 – 20:00	60.2	62.9	59.0	dB(A)
20:00 – 21:00	59.1	64.5	57.5	dB(A)
21:00 – 22:00	59.4	62.5	58.1	dB(A)
22:00 – 23:00	57.4	61.5	55.9	dB(A)
23:00 – 00:00	57.4	65.6	55.9	dB(A)
00:00 – 01:00	57.3	61.6	55.8	dB(A)
01:00 – 02:00	57.4	60.7	55.9	dB(A)
02:00 – 03:00	57.1	62.6	55.6	dB(A)
03:00 – 04:00	57.0	60.9	55.4	dB(A)
04:00 – 05:00	57.2	61.5	55.6	dB(A)
05:00 – 06:00	57.7	68.7	56.1	dB(A)
06:00 – 07:00	58.3	76.0	55.9	dB(A)
07:00 – 08:00	58.0	79.0	55.7	dB(A)
08:00 – 09:00	57.1	69.0	55.1	dB(A)
L_{eq} 24 hr.	58.7	-	-	dB(A)
$L_{dn\#}$	64.2	-	-	dB(A)
Maximum	-	79.0	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

²⁾ Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhum)

³⁾ Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1633

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2
SAMPLE NO. : 06201
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ^{1/3}	57.3	63.4	55.7	dB(A)
10:00 – 11:00	58.8	72.6	55.9	dB(A)
11:00 – 12:00	57.4	66.4	56.0	dB(A)
12:00 – 13:00	56.7	63.4	54.8	dB(A)
13:00 – 14:00	58.7	66.2	56.4	dB(A)
14:00 – 15:00	59.2	65.7	57.6	dB(A)
15:00 – 16:00	59.9	71.8	58.4	dB(A)
16:00 – 17:00	60.2	73.3	58.9	dB(A)
17:00 – 18:00	60.4	64.4	59.1	dB(A)
18:00 – 19:00	60.6	66.8	59.4	dB(A)
19:00 – 20:00	60.1	62.7	58.9	dB(A)
20:00 – 21:00	59.7	65.0	58.6	dB(A)
21:00 – 22:00	59.7	64.0	58.6	dB(A)
22:00 – 23:00	60.2	62.5	59.2	dB(A)
23:00 – 00:00	60.7	64.7	59.7	dB(A)
00:00 – 01:00	59.5	63.8	57.5	dB(A)
01:00 – 02:00	58.2	61.8	56.1	dB(A)
02:00 – 03:00	59.2	62.0	57.5	dB(A)
03:00 – 04:00	58.1	64.1	56.7	dB(A)
04:00 – 05:00	57.6	63.8	56.2	dB(A)
05:00 – 06:00	58.3	66.2	56.9	dB(A)
06:00 – 07:00	58.9	62.7	57.4	dB(A)
07:00 – 08:00	59.6	72.0	58.4	dB(A)
08:00 – 09:00	58.5	69.7	56.8	dB(A)
L_{eq} 24 hr.	59.2	-	-	dB(A)
$L_{dn\#}$	65.5	-	-	dB(A)
Maximum	-	73.3	-	dB(A)
Standard	70 ^{1/} , 70 ^{2/}	115 ^{1/} , 115 ^{2/}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

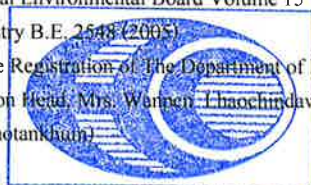
^{1/} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{2/} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

^{3/} Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0442

Report No. R6504-1634

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2

SAMPLE NO. : 06202
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹	56.9	63.1	55.0	dB(A)
10:00 – 11:00	57.4	64.0	55.1	dB(A)
11:00 – 12:00	59.4	67.8	57.9	dB(A)
12:00 – 13:00	60.8	67.4	59.1	dB(A)
13:00 – 14:00	62.7	70.4	58.6	dB(A)
14:00 – 15:00	65.1	73.9	59.4	dB(A)
15:00 – 16:00	62.1	73.5	58.8	dB(A)
16:00 – 17:00	60.9	65.4	59.2	dB(A)
17:00 – 18:00	60.8	64.7	59.4	dB(A)
18:00 – 19:00	61.1	64.8	59.8	dB(A)
19:00 – 20:00	60.8	65.8	59.6	dB(A)
20:00 – 21:00	60.8	64.9	59.7	dB(A)
21:00 – 22:00	60.7	64.3	59.6	dB(A)
22:00 – 23:00	60.3	63.3	59.2	dB(A)
23:00 – 00:00	60.0	63.5	58.9	dB(A)
00:00 – 01:00	57.8	62.9	56.5	dB(A)
01:00 – 02:00	57.9	61.6	56.8	dB(A)
02:00 – 03:00	58.6	62.7	57.6	dB(A)
03:00 – 04:00	60.3	64.4	58.5	dB(A)
04:00 – 05:00	60.7	64.0	59.6	dB(A)
05:00 – 06:00	59.4	63.4	57.5	dB(A)
06:00 – 07:00	58.6	71.0	57.1	dB(A)
07:00 – 08:00	58.5	66.7	56.4	dB(A)
08:00 – 09:00	57.9	65.9	56.2	dB(A)
L_{eq} 24 hr.	60.4	-	-	dB(A)
$L_{dn\#}$	66.1	-	-	dB(A)
Maximum	-	73.9	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

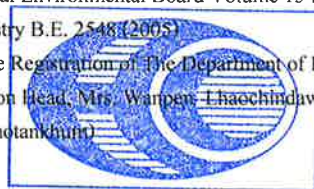
REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhun)

¹ Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

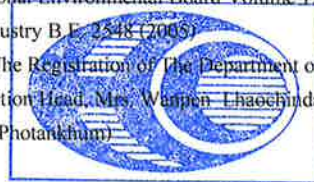
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2
SAMPLE NO. : 06203
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	58.1	68.0	56.5	dB(A)
10:00 – 11:00	57.4	62.5	55.7	dB(A)
11:00 – 12:00	56.3	70.5	54.5	dB(A)
12:00 – 13:00	56.1	66.6	54.1	dB(A)
13:00 – 14:00	57.2	66.2	55.0	dB(A)
14:00 – 15:00	59.9	66.1	58.0	dB(A)
15:00 – 16:00	60.2	64.6	58.8	dB(A)
16:00 – 17:00	60.4	67.5	58.9	dB(A)
17:00 – 18:00	60.4	63.7	59.1	dB(A)
18:00 – 19:00	60.0	65.3	58.9	dB(A)
19:00 – 20:00	60.3	64.8	59.2	dB(A)
20:00 – 21:00	60.1	63.5	59.0	dB(A)
21:00 – 22:00	59.2	63.5	57.0	dB(A)
22:00 – 23:00	58.4	64.7	56.8	dB(A)
23:00 – 00:00	58.3	63.1	56.9	dB(A)
00:00 – 01:00	57.6	65.2	55.8	dB(A)
01:00 – 02:00	57.6	61.0	55.9	dB(A)
02:00 – 03:00	58.2	61.5	56.6	dB(A)
03:00 – 04:00	57.2	62.3	55.5	dB(A)
04:00 – 05:00	57.6	63.5	56.0	dB(A)
05:00 – 06:00	57.8	66.4	56.2	dB(A)
06:00 – 07:00	57.6	65.7	56.1	dB(A)
07:00 – 08:00	58.3	71.8	56.1	dB(A)
08:00 – 09:00	57.4	62.8	55.5	dB(A)
L_{eq} 24 hr.	58.6	-	-	dB(A)
$L_{dn\#}$	64.4	-	-	dB(A)
Maximum	-	71.8	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

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^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)
^{1/3} Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarut Photankhum)



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Approved By.....
 (MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2
SAMPLE NO. : 06204
MEASURING DATE : 08-09/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	08-09/04/2022 (L_{eq})	08-09/04/2022 (L_{max})	08-09/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	56.9	66.5	55.0	dB(A)
10:00 – 11:00	57.0	64.7	55.2	dB(A)
11:00 – 12:00	57.5	67.4	55.3	dB(A)
12:00 – 13:00	59.4	65.3	57.3	dB(A)
13:00 – 14:00	60.1	68.2	58.2	dB(A)
14:00 – 15:00	60.0	64.7	58.4	dB(A)
15:00 – 16:00	60.4	65.0	58.7	dB(A)
16:00 – 17:00	60.2	74.2	58.7	dB(A)
17:00 – 18:00	60.5	67.3	59.1	dB(A)
18:00 – 19:00	60.6	69.8	59.3	dB(A)
19:00 – 20:00	60.6	63.5	59.5	dB(A)
20:00 – 21:00	60.7	63.8	59.7	dB(A)
21:00 – 22:00	61.1	65.6	60.1	dB(A)
22:00 – 23:00	60.9	63.4	59.9	dB(A)
23:00 – 00:00	60.5	63.6	59.0	dB(A)
00:00 – 01:00	58.9	62.1	57.7	dB(A)
01:00 – 02:00	59.0	61.4	57.8	dB(A)
02:00 – 03:00	59.3	62.4	58.0	dB(A)
03:00 – 04:00	59.5	64.5	57.8	dB(A)
04:00 – 05:00	60.7	63.1	59.5	dB(A)
05:00 – 06:00	61.3	73.1	60.2	dB(A)
06:00 – 07:00	60.8	69.0	59.4	dB(A)
07:00 – 08:00	60.8	69.5	59.8	dB(A)
08:00 – 09:00	60.4	67.4	59.1	dB(A)
L_{eq} 24 hr.	60.0	-	-	dB(A)
$L_{dn\#}$	66.6	-	-	dB(A)
Maximum	-	74.2	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

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683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1637

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2

SAMPLE NO. : 06205
MEASURING DATE : 09-10/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	09-10/04/2022 (L_{eq})	09-10/04/2022 (L_{max})	09-10/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹³	60.6	67.7	59.0	dB(A)
10:00 – 11:00	61.9	75.1	59.2	dB(A)
11:00 – 12:00	60.6	67.8	58.9	dB(A)
12:00 – 13:00	60.3	68.8	58.5	dB(A)
13:00 – 14:00	60.5	68.1	58.7	dB(A)
14:00 – 15:00	60.3	66.5	58.6	dB(A)
15:00 – 16:00	60.5	68.2	58.9	dB(A)
16:00 – 17:00	60.7	66.6	59.1	dB(A)
17:00 – 18:00	60.7	67.2	59.1	dB(A)
18:00 – 19:00	60.1	67.1	58.9	dB(A)
19:00 – 20:00	60.8	64.8	59.7	dB(A)
20:00 – 21:00	60.6	64.0	59.6	dB(A)
21:00 – 22:00	60.8	64.9	59.8	dB(A)
22:00 – 23:00	60.7	63.1	59.6	dB(A)
23:00 – 00:00	61.2	65.2	60.1	dB(A)
00:00 – 01:00	60.8	64.3	59.6	dB(A)
01:00 – 02:00	60.7	63.5	59.7	dB(A)
02:00 – 03:00	60.5	62.6	59.5	dB(A)
03:00 – 04:00	59.6	62.3	58.4	dB(A)
04:00 – 05:00	59.1	66.2	57.8	dB(A)
05:00 – 06:00	59.7	66.6	58.4	dB(A)
06:00 – 07:00	59.9	69.4	58.5	dB(A)
07:00 – 08:00	60.3	73.1	58.2	dB(A)
08:00 – 09:00	60.0	70.0	58.3	dB(A)
L_{eq} 24 hr.	60.5	-	-	dB(A)
$L_{dn\#}$	66.7	-	-	dB(A)
Maximum	-	75.1	-	dB(A)
Standard	$70^{1/1}$, $70^{1/2}$	$115^{1/1}$, $115^{1/2}$	-	dB(A)

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^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

^{1/3} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankham)



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Approved By:
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1638

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301638 : Type 2
SAMPLE NO. : 06206
MEASURING DATE : 10-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	10-11/04/2022 (L_{eq})	10-11/04/2022 (L_{max})	10-11/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ^{1/3}	60.2	66.7	58.6	dB(A)
10:00 – 11:00	60.6	66.0	58.9	dB(A)
11:00 – 12:00	60.9	72.9	59.4	dB(A)
12:00 – 13:00	60.0	67.1	58.1	dB(A)
13:00 – 14:00	60.1	66.4	58.3	dB(A)
14:00 – 15:00	60.1	64.4	58.4	dB(A)
15:00 – 16:00	60.3	66.2	58.8	dB(A)
16:00 – 17:00	60.4	67.3	58.9	dB(A)
17:00 – 18:00	60.6	69.9	59.1	dB(A)
18:00 – 19:00	60.9	64.9	59.7	dB(A)
19:00 – 20:00	61.2	67.6	59.9	dB(A)
20:00 – 21:00	61.1	65.8	59.8	dB(A)
21:00 – 22:00	61.2	65.7	59.8	dB(A)
22:00 – 23:00	61.5	65.2	60.2	dB(A)
23:00 – 00:00	61.4	64.9	59.9	dB(A)
00:00 – 01:00	61.4	64.9	60.0	dB(A)
01:00 – 02:00	61.6	64.8	60.3	dB(A)
02:00 – 03:00	61.7	66.1	60.3	dB(A)
03:00 – 04:00	61.6	64.3	60.3	dB(A)
04:00 – 05:00	61.7	65.6	60.4	dB(A)
05:00 – 06:00	61.7	65.7	60.2	dB(A)
06:00 – 07:00	61.5	69.0	60.1	dB(A)
07:00 – 08:00	61.1	65.4	59.7	dB(A)
08:00 – 09:00	60.4	67.1	58.8	dB(A)
L_{eq} 24 hr.	61.0	-	-	dB(A)
$L_{dn\#}$	67.9	-	-	dB(A)
Maximum	-	72.9	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	dB(A)

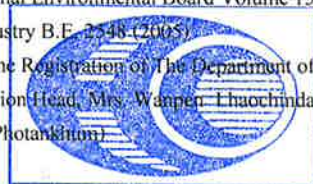
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^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

^{1/3} Start Time

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(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhiron)



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Approved By.....
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22/04/2022

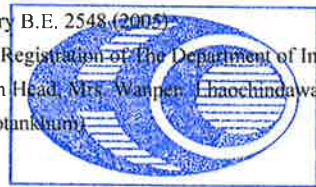
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TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2
SAMPLE NO. : 06207
MEASURING DATE : 04-05/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	66.2	87.4	59.8	dB(A)
10:00 – 11:00	64.7	80.4	59.3	dB(A)
11:00 – 12:00	64.4	85.3	56.9	dB(A)
12:00 – 13:00	62.3	80.0	56.3	dB(A)
13:00 – 14:00	65.0	85.5	59.0	dB(A)
14:00 – 15:00	65.1	85.3	58.7	dB(A)
15:00 – 16:00	66.4	88.3	60.2	dB(A)
16:00 – 17:00	64.5	81.9	57.9	dB(A)
17:00 – 18:00	66.1	84.1	59.6	dB(A)
18:00 – 19:00	64.5	82.5	58.8	dB(A)
19:00 – 20:00	63.5	82.8	56.8	dB(A)
20:00 – 21:00	60.5	78.7	56.4	dB(A)
21:00 – 22:00	59.6	76.4	57.4	dB(A)
22:00 – 23:00	60.0	82.5	57.6	dB(A)
23:00 – 00:00	59.5	82.5	57.0	dB(A)
00:00 – 01:00	58.5	78.5	56.8	dB(A)
01:00 – 02:00	59.1	75.5	57.6	dB(A)
02:00 – 03:00	58.7	75.3	57.0	dB(A)
03:00 – 04:00	58.3	76.0	57.0	dB(A)
04:00 – 05:00	59.5	79.3	57.7	dB(A)
05:00 – 06:00	60.4	85.4	57.4	dB(A)
06:00 – 07:00	63.1	91.2	58.5	dB(A)
07:00 – 08:00	64.5	90.0	58.8	dB(A)
08:00 – 09:00	66.5	86.3	60.0	dB(A)
L_{eq} 24 hr.	63.4	-	-	dB(A)
$L_{dn\#}$	67.4	-	-	dB(A)
Maximum	-	91.2	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
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³ Start Time
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 (Measurement By Mr. Tummarut Photankhum)



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Approved By: 
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22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1640

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2

SAMPLE NO. : 06208
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

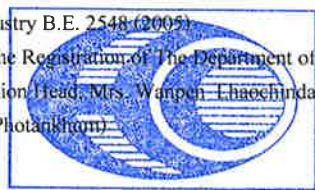
TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	65.2	86.1	59.6	dB(A)
10:00 – 11:00	64.9	84.9	59.4	dB(A)
11:00 – 12:00	66.0	89.0	58.4	dB(A)
12:00 – 13:00	62.9	88.0	57.5	dB(A)
13:00 – 14:00	63.7	83.5	58.5	dB(A)
14:00 – 15:00	65.2	80.4	58.8	dB(A)
15:00 – 16:00	66.0	89.2	58.3	dB(A)
16:00 – 17:00	66.1	85.2	58.7	dB(A)
17:00 – 18:00	66.3	86.6	59.3	dB(A)
18:00 – 19:00	64.0	80.9	57.9	dB(A)
19:00 – 20:00	62.4	79.6	56.5	dB(A)
20:00 – 21:00	60.9	82.1	56.8	dB(A)
21:00 – 22:00	60.6	79.1	56.9	dB(A)
22:00 – 23:00	59.3	77.5	56.5	dB(A)
23:00 – 00:00	60.7	84.0	56.6	dB(A)
00:00 – 01:00	59.6	76.5	57.2	dB(A)
01:00 – 02:00	59.3	76.4	57.6	dB(A)
02:00 – 03:00	58.7	75.9	56.5	dB(A)
03:00 – 04:00	58.0	76.7	56.0	dB(A)
04:00 – 05:00	58.9	83.8	56.5	dB(A)
05:00 – 06:00	59.9	80.9	56.6	dB(A)
06:00 – 07:00	62.1	79.7	57.9	dB(A)
07:00 – 08:00	62.8	78.6	57.8	dB(A)
08:00 – 09:00	63.5	80.4	57.7	dB(A)
L_{eq} 24 hr.	63.2	-	-	dB(A)
$L_{dn\#}$	67.2	-	-	dB(A)
Maximum	-	89.2	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ¹ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

³ Start Time

Approved By:
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0442

Report No. R6504-1641

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2

SAMPLE NO. : 06209
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 ($L_{90\%}$)	UNIT
09:00 – 10:00 ¹⁾	64.1	81.2	58.3	dB(A)
10:00 – 11:00	65.9	88.0	57.5	dB(A)
11:00 – 12:00	62.2	83.5	56.5	dB(A)
12:00 – 13:00	62.0	84.2	56.1	dB(A)
13:00 – 14:00	66.3	86.7	59.0	dB(A)
14:00 – 15:00	64.6	84.5	58.6	dB(A)
15:00 – 16:00	65.3	89.1	58.9	dB(A)
16:00 – 17:00	62.9	85.4	57.2	dB(A)
17:00 – 18:00	62.4	81.9	57.1	dB(A)
18:00 – 19:00	61.6	83.1	57.2	dB(A)
19:00 – 20:00	61.1	82.5	56.4	dB(A)
20:00 – 21:00	60.5	77.1	57.0	dB(A)
21:00 – 22:00	59.8	82.1	57.3	dB(A)
22:00 – 23:00	59.7	81.7	57.3	dB(A)
23:00 – 00:00	59.5	82.1	57.0	dB(A)
00:00 – 01:00	59.5	78.2	57.4	dB(A)
01:00 – 02:00	59.0	76.2	57.3	dB(A)
02:00 – 03:00	59.2	77.3	57.5	dB(A)
03:00 – 04:00	59.3	76.8	57.5	dB(A)
04:00 – 05:00	59.7	75.6	57.7	dB(A)
05:00 – 06:00	61.3	87.9	57.5	dB(A)
06:00 – 07:00	61.8	77.1	57.9	dB(A)
07:00 – 08:00	64.1	78.2	58.8	dB(A)
08:00 – 09:00	67.0	84.6	60.0	dB(A)
L_{eq} 24 hr.	62.8	-	-	dB(A)
$L_{dn\#}$	67.2	-	-	dB(A)
Maximum	-	89.1	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

²⁾ Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

³⁾ Start Time

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1642

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2

SAMPLE NO. : 06210
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ^{1/3}	66.4	88.4	60.6	dB(A)
10:00 – 11:00	65.3	81.4	59.4	dB(A)
11:00 – 12:00	64.0	82.8	58.4	dB(A)
12:00 – 13:00	62.9	78.3	57.2	dB(A)
13:00 – 14:00	66.4	87.4	58.7	dB(A)
14:00 – 15:00	64.7	85.9	58.6	dB(A)
15:00 – 16:00	65.6	89.4	58.7	dB(A)
16:00 – 17:00	65.1	91.6	58.7	dB(A)
17:00 – 18:00	66.0	89.7	59.1	dB(A)
18:00 – 19:00	66.1	91.3	58.6	dB(A)
19:00 – 20:00	65.1	93.6	58.4	dB(A)
20:00 – 21:00	64.4	90.4	57.9	dB(A)
21:00 – 22:00	62.7	84.7	57.8	dB(A)
22:00 – 23:00	61.6	79.1	57.9	dB(A)
23:00 – 00:00	60.9	79.7	57.9	dB(A)
00:00 – 01:00	59.9	80.3	57.6	dB(A)
01:00 – 02:00	59.7	75.5	57.8	dB(A)
02:00 – 03:00	59.9	78.8	57.6	dB(A)
03:00 – 04:00	59.0	74.7	57.4	dB(A)
04:00 – 05:00	59.5	77.2	57.4	dB(A)
05:00 – 06:00	60.3	76.4	58.2	dB(A)
06:00 – 07:00	61.8	78.6	58.7	dB(A)
07:00 – 08:00	65.1	90.4	58.7	dB(A)
08:00 – 09:00	65.9	84.0	59.7	dB(A)
L_{eq} 24 hr.	63.9	-	-	dB(A)
$L_{dn\#}$	67.9	-	-	dB(A)
Maximum	-	93.6	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

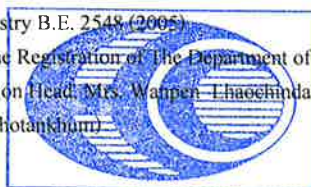
^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

^{1/3} Start Time

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1643

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2

SAMPLE NO. : 06211
MEASURING DATE : 08-09/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	08-09/04/2022 (L_{eq})	08-09/04/2022 (L_{max})	08-09/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹³	64.4	80.2	58.9	dB(A)
10:00 – 11:00	64.9	85.6	58.8	dB(A)
11:00 – 12:00	64.1	85.7	57.2	dB(A)
12:00 – 13:00	62.0	80.7	56.1	dB(A)
13:00 – 14:00	63.5	81.5	57.4	dB(A)
14:00 – 15:00	65.6	99.0	59.0	dB(A)
15:00 – 16:00	64.4	79.5	57.5	dB(A)
16:00 – 17:00	66.2	95.9	59.3	dB(A)
17:00 – 18:00	65.9	88.2	59.0	dB(A)
18:00 – 19:00	64.2	85.1	57.1	dB(A)
19:00 – 20:00	64.8	86.2	56.6	dB(A)
20:00 – 21:00	61.6	81.9	55.9	dB(A)
21:00 – 22:00	59.9	79.5	56.3	dB(A)
22:00 – 23:00	60.2	77.0	56.0	dB(A)
23:00 – 00:00	59.5	81.6	56.0	dB(A)
00:00 – 01:00	59.4	74.0	56.2	dB(A)
01:00 – 02:00	59.6	75.2	56.4	dB(A)
02:00 – 03:00	59.2	77.3	56.6	dB(A)
03:00 – 04:00	59.7	77.1	56.6	dB(A)
04:00 – 05:00	58.4	77.0	55.4	dB(A)
05:00 – 06:00	58.8	75.4	55.5	dB(A)
06:00 – 07:00	60.0	74.9	55.9	dB(A)
07:00 – 08:00	62.9	80.1	56.7	dB(A)
08:00 – 09:00	63.4	82.3	56.4	dB(A)
L_{eq} 24 hr.	62.9	-	-	dB(A)
$L_{dn\#}$	66.9	-	-	dB(A)
Maximum	-	99.0	-	dB(A)
Standard	70^{11} , 70^{12}	115^{11} , 115^{12}	-	dB(A)

REMARK : ¹³ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

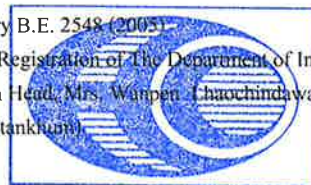
¹² Notification of Ministry of the Industry B.E. 2548 (2005)

¹³ Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhuan)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2

SAMPLE NO. : 06212
MEASURING DATE : 09-10/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	09-10/04/2022 (L_{eq})	09-10/04/2022 (L_{max})	09-10/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹⁾	62.5	83.7	57.3	dB(A)
10:00 – 11:00	62.7	87.3	56.8	dB(A)
11:00 – 12:00	63.0	82.8	56.4	dB(A)
12:00 – 13:00	60.9	80.6	55.6	dB(A)
13:00 – 14:00	62.5	79.8	56.5	dB(A)
14:00 – 15:00	62.0	78.5	56.4	dB(A)
15:00 – 16:00	63.0	84.0	56.7	dB(A)
16:00 – 17:00	63.3	87.4	56.8	dB(A)
17:00 – 18:00	60.9	79.6	56.4	dB(A)
18:00 – 19:00	62.6	88.6	56.4	dB(A)
19:00 – 20:00	61.5	81.0	56.0	dB(A)
20:00 – 21:00	60.8	82.4	56.3	dB(A)
21:00 – 22:00	59.2	76.6	55.5	dB(A)
22:00 – 23:00	58.8	75.9	55.1	dB(A)
23:00 – 00:00	58.7	75.6	55.6	dB(A)
00:00 – 01:00	58.5	75.7	55.4	dB(A)
01:00 – 02:00	58.4	76.1	55.2	dB(A)
02:00 – 03:00	58.0	77.1	55.2	dB(A)
03:00 – 04:00	58.2	75.4	55.3	dB(A)
04:00 – 05:00	58.0	76.5	55.2	dB(A)
05:00 – 06:00	58.9	76.7	55.1	dB(A)
06:00 – 07:00	60.6	76.7	56.3	dB(A)
07:00 – 08:00	62.7	81.0	56.7	dB(A)
08:00 – 09:00	63.2	89.5	56.7	dB(A)
L_{eq} 24 hr.	61.2	-	-	dB(A)
$L_{dn\#}$	65.8	-	-	dB(A)
Maximum	-	89.5	-	dB(A)
Standard	$70^{1/}$, $70^{2/}$	$115^{1/}$, $115^{2/}$	-	dB(A)

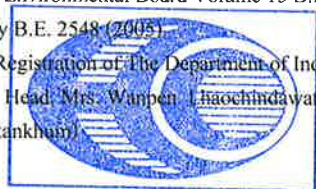
REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{2/} Notification of Ministry of the Industry B.E. 2548 (2005)

^{3/} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2
SAMPLE NO. : 06213
MEASURING DATE : 10-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	10-11/04/2022 (L_{eq})	10-11/04/2022 (L_{max})	10-11/04/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹³	63.2	88.3	57.4	dB(A)
10:00 – 11:00	62.9	84.0	57.0	dB(A)
11:00 – 12:00	62.3	84.4	54.7	dB(A)
12:00 – 13:00	61.1	83.5	55.2	dB(A)
13:00 – 14:00	63.4	86.8	57.0	dB(A)
14:00 – 15:00	63.2	85.7	56.2	dB(A)
15:00 – 16:00	63.5	81.4	56.1	dB(A)
16:00 – 17:00	63.3	83.5	55.8	dB(A)
17:00 – 18:00	61.9	88.0	55.5	dB(A)
18:00 – 19:00	60.6	77.6	55.0	dB(A)
19:00 – 20:00	62.1	90.3	54.6	dB(A)
20:00 – 21:00	60.5	79.9	56.1	dB(A)
21:00 – 22:00	60.2	79.8	55.4	dB(A)
22:00 – 23:00	60.1	80.6	55.1	dB(A)
23:00 – 00:00	61.0	79.4	54.8	dB(A)
00:00 – 01:00	60.4	78.1	55.3	dB(A)
01:00 – 02:00	60.3	80.0	55.2	dB(A)
02:00 – 03:00	60.1	77.6	55.2	dB(A)
03:00 – 04:00	60.5	78.4	54.5	dB(A)
04:00 – 05:00	60.7	80.4	54.7	dB(A)
05:00 – 06:00	61.0	79.8	55.7	dB(A)
06:00 – 07:00	63.7	87.1	56.2	dB(A)
07:00 – 08:00	64.4	89.4	56.8	dB(A)
08:00 – 09:00	65.3	85.9	56.3	dB(A)
L_{eq} 24 hr.	62.2	-	-	dB(A)
$L_{dn\#}$	67.7	-	-	dB(A)
Maximum	-	90.3	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photakhuang)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1646

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก

PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$

DETERMINATION METHOD : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N 01209915 : Type 2

SAMPLE NO. : 06214

MEASURING DATE : 04-05/04/2022

RECEIVED DATE : 11/04/2022

REPORTED DATE : 22/04/2022

TIME \ DATE	04-05/04/2022 (L_{eq})	04-05/04/2022 (L_{max})	04-05/04/2022 ($L_{90\%}$)	UNIT
10:00 – 11:00 ^{1/3}	64.9	74.2	64.3	dB(A)
11:00 – 12:00	64.6	66.8	64.1	dB(A)
12:00 – 13:00	64.0	69.9	63.4	dB(A)
13:00 – 14:00	63.5	66.3	63.0	dB(A)
14:00 – 15:00	63.9	67.7	63.5	dB(A)
15:00 – 16:00	64.4	74.9	63.9	dB(A)
16:00 – 17:00	63.7	65.3	63.3	dB(A)
17:00 – 18:00	64.3	66.8	63.9	dB(A)
18:00 – 19:00	64.2	65.8	63.8	dB(A)
19:00 – 20:00	64.4	70.2	64.0	dB(A)
20:00 – 21:00	63.8	65.3	63.5	dB(A)
21:00 – 22:00	63.9	65.9	63.5	dB(A)
22:00 – 23:00	63.8	70.6	63.5	dB(A)
23:00 – 00:00	63.8	65.0	63.4	dB(A)
00:00 – 01:00	63.7	64.8	63.4	dB(A)
01:00 – 02:00	64.2	66.0	63.8	dB(A)
02:00 – 03:00	64.0	65.7	63.6	dB(A)
03:00 – 04:00	64.1	65.7	63.8	dB(A)
04:00 – 05:00	64.0	65.2	63.7	dB(A)
05:00 – 06:00	64.4	70.7	64.0	dB(A)
06:00 – 07:00	64.3	67.1	64.0	dB(A)
07:00 – 08:00	64.3	67.2	63.9	dB(A)
08:00 – 09:00	63.5	66.9	63.1	dB(A)
09:00 – 10:00	63.6	71.3	63.1	dB(A)
L_{eq} 24 hr.	64.1	-	-	dB(A)
$L_{dn\#}$	70.5	-	-	dB(A)
Maximum	-	74.9	-	dB(A)
Standard	70 ^{1/} , 70 ^{2/}	115 ^{1/} , 115 ^{2/}	-	dB(A)

REMARK : ^{1/} Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

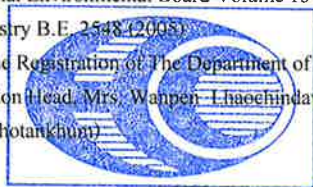
^{2/} Notification of Ministry of the Industry B.E. 2548 (2005)

^{3/} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhun)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0442

Report No. R6504-1647

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2

SAMPLE NO. : 06215
MEASURING DATE : 05-06/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	05-06/04/2022 (L_{eq})	05-06/04/2022 (L_{max})	05-06/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ¹	64.7	70.6	64.1	dB(A)
11:00 – 12:00	64.5	68.7	64.1	dB(A)
12:00 – 13:00	63.6	67.0	63.1	dB(A)
13:00 – 14:00	64.2	71.3	63.6	dB(A)
14:00 – 15:00	64.2	73.0	63.7	dB(A)
15:00 – 16:00	64.0	67.2	63.5	dB(A)
16:00 – 17:00	64.1	67.1	63.7	dB(A)
17:00 – 18:00	64.2	74.4	63.8	dB(A)
18:00 – 19:00	64.3	68.6	63.9	dB(A)
19:00 – 20:00	63.7	68.2	63.4	dB(A)
20:00 – 21:00	63.9	66.0	63.5	dB(A)
21:00 – 22:00	63.9	65.6	63.6	dB(A)
22:00 – 23:00	63.8	68.6	63.4	dB(A)
23:00 – 00:00	63.7	65.3	63.4	dB(A)
00:00 – 01:00	63.8	69.1	63.3	dB(A)
01:00 – 02:00	64.3	67.5	64.0	dB(A)
02:00 – 03:00	64.1	65.4	63.8	dB(A)
03:00 – 04:00	64.0	66.0	63.7	dB(A)
04:00 – 05:00	64.1	65.7	63.8	dB(A)
05:00 – 06:00	64.6	65.7	64.3	dB(A)
06:00 – 07:00	64.5	67.1	64.1	dB(A)
07:00 – 08:00	63.8	66.0	63.4	dB(A)
08:00 – 09:00	63.5	66.0	63.1	dB(A)
09:00 – 10:00	63.8	70.7	63.4	dB(A)
L_{eq} 24 hr.	64.1	-	-	dB(A)
$L_{dn\#}$	70.5	-	-	dB(A)
Maximum	-	74.4	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ¹ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

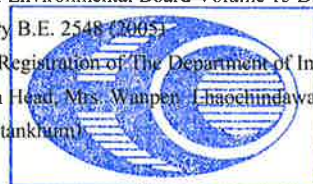
¹² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)

¹³ Start Time



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2

SAMPLE NO. : 06216
MEASURING DATE : 06-07/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

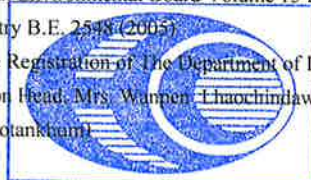
TIME \ DATE	06-07/04/2022 (L_{eq})	06-07/04/2022 (L_{max})	06-07/04/2022 ($L_{90\%}$)	UNIT
10:00 – 11:00 ^{1/3}	63.4	70.1	63.0	dB(A)
11:00 – 12:00	63.6	67.9	63.1	dB(A)
12:00 – 13:00	63.3	66.3	63.0	dB(A)
13:00 – 14:00	63.5	67.9	63.0	dB(A)
14:00 – 15:00	64.0	80.0	63.3	dB(A)
15:00 – 16:00	63.9	79.4	63.3	dB(A)
16:00 – 17:00	63.7	65.7	63.3	dB(A)
17:00 – 18:00	63.9	69.3	63.4	dB(A)
18:00 – 19:00	64.2	70.3	63.8	dB(A)
19:00 – 20:00	63.8	66.4	63.5	dB(A)
20:00 – 21:00	63.8	65.7	63.5	dB(A)
21:00 – 22:00	63.9	65.6	63.6	dB(A)
22:00 – 23:00	63.9	65.2	63.6	dB(A)
23:00 – 00:00	63.8	65.0	63.5	dB(A)
00:00 – 01:00	64.0	65.4	63.6	dB(A)
01:00 – 02:00	64.1	68.6	63.8	dB(A)
02:00 – 03:00	64.2	68.3	63.9	dB(A)
03:00 – 04:00	64.1	66.8	63.7	dB(A)
04:00 – 05:00	64.2	65.3	63.8	dB(A)
05:00 – 06:00	64.0	68.0	63.7	dB(A)
06:00 – 07:00	64.2	69.2	63.8	dB(A)
07:00 – 08:00	64.2	71.3	63.7	dB(A)
08:00 – 09:00	63.9	75.9	63.4	dB(A)
09:00 – 10:00	64.1	69.3	63.6	dB(A)
L_{eq} 24 hr.	63.9	-	-	dB(A)
$L_{dn\#}$	70.4	-	-	dB(A)
Maximum	-	80.0	-	dB(A)
Standard	70 ^{1/} , 70 ^{2/}	115 ^{1/} , 115 ^{2/}	-	dB(A)

REMARK : ^{1/3} Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

^{1/3} Start Time

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0442
Report No. R6504-1649

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2

SAMPLE NO. : 06217
MEASURING DATE : 07-08/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	07-08/04/2022 (L_{eq})	07-08/04/2022 (L_{max})	07-08/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ¹⁾	63.9	71.7	63.3	dB(A)
11:00 – 12:00	63.7	69.9	63.2	dB(A)
12:00 – 13:00	63.3	67.4	62.8	dB(A)
13:00 – 14:00	63.5	72.4	62.9	dB(A)
14:00 – 15:00	64.1	70.3	63.4	dB(A)
15:00 – 16:00	63.8	69.4	63.3	dB(A)
16:00 – 17:00	63.8	66.8	63.4	dB(A)
17:00 – 18:00	63.9	71.4	63.5	dB(A)
18:00 – 19:00	63.9	66.9	63.5	dB(A)
19:00 – 20:00	63.9	70.7	63.5	dB(A)
20:00 – 21:00	64.0	67.8	63.6	dB(A)
21:00 – 22:00	64.0	65.6	63.7	dB(A)
22:00 – 23:00	63.9	66.9	63.6	dB(A)
23:00 – 00:00	64.5	68.2	63.8	dB(A)
00:00 – 01:00	64.4	67.2	63.7	dB(A)
01:00 – 02:00	64.3	68.7	63.8	dB(A)
02:00 – 03:00	64.1	66.5	63.8	dB(A)
03:00 – 04:00	64.0	66.0	63.7	dB(A)
04:00 – 05:00	64.0	65.9	63.7	dB(A)
05:00 – 06:00	64.2	66.7	63.8	dB(A)
06:00 – 07:00	64.4	68.0	64.0	dB(A)
07:00 – 08:00	64.2	70.5	63.7	dB(A)
08:00 – 09:00	64.0	75.1	63.5	dB(A)
09:00 – 10:00	64.1	71.2	63.6	dB(A)
L_{eq} 24 hr.	64.0	-	-	dB(A)
$L_{dn\#}$	70.6	-	-	dB(A)
Maximum	-	75.1	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

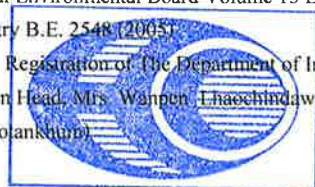
²⁾ Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Pholankhum)

³⁾ Start Time



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2

SAMPLE NO. : 06218
MEASURING DATE : 08-09/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	08-09/04/2022 (L_{eq})	08-09/04/2022 (L_{max})	08-09/04/2022 ($L_{90\%}$)	UNIT
10:00 – 11:00 ¹	63.8	69.5	63.4	dB(A)
11:00 – 12:00	63.7	69.4	63.3	dB(A)
12:00 – 13:00	63.2	65.3	62.8	dB(A)
13:00 – 14:00	63.4	67.2	62.9	dB(A)
14:00 – 15:00	63.7	67.0	63.2	dB(A)
15:00 – 16:00	63.6	67.2	63.1	dB(A)
16:00 – 17:00	63.6	67.4	63.2	dB(A)
17:00 – 18:00	63.8	66.0	63.4	dB(A)
18:00 – 19:00	63.9	76.8	63.5	dB(A)
19:00 – 20:00	63.7	65.9	63.4	dB(A)
20:00 – 21:00	63.8	72.8	63.4	dB(A)
21:00 – 22:00	64.0	65.4	63.6	dB(A)
22:00 – 23:00	64.0	66.8	63.7	dB(A)
23:00 – 00:00	64.1	70.9	63.7	dB(A)
00:00 – 01:00	63.9	66.7	63.5	dB(A)
01:00 – 02:00	63.8	68.5	63.4	dB(A)
02:00 – 03:00	63.7	66.6	63.4	dB(A)
03:00 – 04:00	63.7	65.6	63.3	dB(A)
04:00 – 05:00	63.6	67.9	63.2	dB(A)
05:00 – 06:00	63.7	68.1	63.4	dB(A)
06:00 – 07:00	63.7	68.8	63.3	dB(A)
07:00 – 08:00	63.3	72.3	62.9	dB(A)
08:00 – 09:00	62.9	71.5	62.5	dB(A)
09:00 – 10:00	62.9	67.3	62.6	dB(A)
L_{eq} 24 hr.	63.7	-	-	dB(A)
$L_{dn\#}$	70.2	-	-	dB(A)
Maximum	-	76.8	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ¹ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

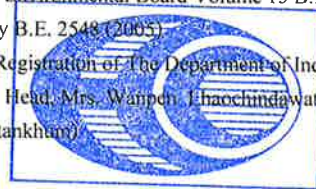
¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

¹ Start Time

22/04/2022

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NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0442

Report No. R6504-1651

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2
SAMPLE NO. : 06219
MEASURING DATE : 09-10/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	09-10/04/2022 (L_{eq})	09-10/04/2022 (L_{max})	09-10/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ^{1/3}	62.9	68.4	62.5	dB(A)
11:00 – 12:00	62.9	64.4	62.5	dB(A)
12:00 – 13:00	62.8	64.4	62.4	dB(A)
13:00 – 14:00	62.7	65.0	62.3	dB(A)
14:00 – 15:00	62.8	68.3	62.3	dB(A)
15:00 – 16:00	62.8	67.2	62.5	dB(A)
16:00 – 17:00	62.9	72.6	62.5	dB(A)
17:00 – 18:00	63.0	67.5	62.6	dB(A)
18:00 – 19:00	63.1	65.5	62.7	dB(A)
19:00 – 20:00	63.2	64.5	62.8	dB(A)
20:00 – 21:00	63.1	65.1	62.8	dB(A)
21:00 – 22:00	63.4	67.5	63.1	dB(A)
22:00 – 23:00	63.3	65.6	62.9	dB(A)
23:00 – 00:00	63.4	65.0	63.0	dB(A)
00:00 – 01:00	63.4	64.9	63.0	dB(A)
01:00 – 02:00	63.4	64.8	63.0	dB(A)
02:00 – 03:00	63.7	70.5	63.2	dB(A)
03:00 – 04:00	63.7	68.6	63.3	dB(A)
04:00 – 05:00	63.6	65.9	63.3	dB(A)
05:00 – 06:00	63.7	65.4	63.3	dB(A)
06:00 – 07:00	63.7	72.4	63.4	dB(A)
07:00 – 08:00	63.7	68.4	63.3	dB(A)
08:00 – 09:00	64.0	69.9	63.0	dB(A)
09:00 – 10:00	63.2	67.1	62.8	dB(A)
L_{eq} 24 hr.	63.3	-	-	dB(A)
$L_{dn\#}$	69.9	-	-	dB(A)
Maximum	-	72.6	-	dB(A)
Standard	70 ^{1/} , 70 ^{2/}	115 ^{1/} , 115 ^{2/}	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
^{1/} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
^{2/} Notification of Ministry of the Industry B.E. 2548 (2005)
^{3/} Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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ACCREDITED
ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0442

Report No. R6504-1652

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2

SAMPLE NO. : 06220
MEASURING DATE : 10-11/04/2022
RECEIVED DATE : 11/04/2022
REPORTED DATE : 22/04/2022

TIME \ DATE	10-11/04/2022 (L_{eq})	10-11/04/2022 (L_{max})	10-11/04/2022 ($L_{90\#}$)	UNIT
10:00 – 11:00 ³	63.7	68.8	63.2	dB(A)
11:00 – 12:00	63.5	68.2	63.1	dB(A)
12:00 – 13:00	63.2	68.6	62.7	dB(A)
13:00 – 14:00	62.9	66.3	62.5	dB(A)
14:00 – 15:00	63.1	69.3	62.7	dB(A)
15:00 – 16:00	63.2	66.5	62.8	dB(A)
16:00 – 17:00	63.4	75.8	62.9	dB(A)
17:00 – 18:00	63.5	69.4	63.1	dB(A)
18:00 – 19:00	63.7	66.9	63.3	dB(A)
19:00 – 20:00	63.8	66.1	63.4	dB(A)
20:00 – 21:00	64.0	66.7	63.5	dB(A)
21:00 – 22:00	64.3	65.7	64.0	dB(A)
22:00 – 23:00	64.1	68.5	63.7	dB(A)
23:00 – 00:00	64.1	65.5	63.7	dB(A)
00:00 – 01:00	64.0	67.0	63.7	dB(A)
01:00 – 02:00	64.1	65.7	63.7	dB(A)
02:00 – 03:00	64.2	65.8	63.8	dB(A)
03:00 – 04:00	64.3	65.7	63.9	dB(A)
04:00 – 05:00	64.0	68.4	63.7	dB(A)
05:00 – 06:00	64.2	67.1	63.8	dB(A)
06:00 – 07:00	64.1	68.2	63.8	dB(A)
07:00 – 08:00	64.2	66.6	63.7	dB(A)
08:00 – 09:00	63.9	68.5	63.5	dB(A)
09:00 – 10:00	64.0	66.9	63.5	dB(A)
L_{eq} 24 hr.	63.8	-	-	dB(A)
$L_{dn\#}$	70.5	-	-	dB(A)
Maximum	-	75.8	-	dB(A)
Standard	$70^{1/1}, 70^{2/2}$	$115^{1/1}, 115^{2/2}$	-	dB(A)

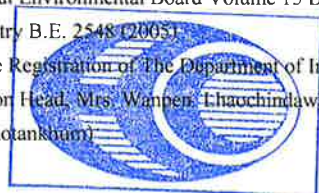
REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)

^{1/3} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/04/2022

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ผลการทดสอบคุณภาพน้ำใต้ดิน

Test Report

Request No : W6503276

Report No : 6503 - 1969

Customer : GC Styrenics Company Limited

Address : 7 I-I Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65031092

Sample Name : MW 05 (เหนือน้ำ)

Sampling Date : 09/03/2022

Sampling By : ETC

Sampling Time : 9:17 AM

Sampling Method : Grab

Received Date : 10/03/2022

Tested Date : 10/03/2022 - 24/03/2022

Reported Date : 01/04/2022

Parameter	Unit	Method	Result	Standard/ ¹
Ethylbenzene #	mg/l	APHA 6200 B	ND	≤2
Styrene monomer #	mg/l	APHA 6200 B	ND	≤24

Physical Apperance : 1. Sample : orange, turbid

2. Container : Normal [PE 2.0 L, G 2.5 L [2 Bottle]]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

01/04/2022



Test Report

Request No : W6503276

Report No : 6503-1970

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65031093

Sample Name : MW 02 (ท้ายน้ำ)

Sampling Date : 09/03/2022

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/03/2022

Tested Date : 10/03/2022 - 24/03/2022

Reported Date : 01/04/2022

Parameter	Unit	Method	Result	Standard ¹
Ethylbenzene #	mg/l	APHA 6200 B	ND	≤2
Styrene monomer #	mg/l	APHA 6200 B	ND	≤24

Physical Apperance : 1. Sample : lightly SS

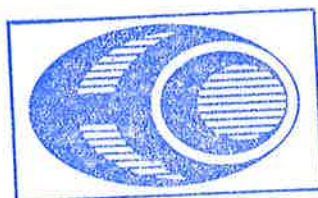
2. Container : Normal [PE 2.0 L, G 2.5 L [2 Bottle]]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

01/04/2022

**Test Report**

Request No : W6503276

Report No : 6503-1971

Customer : GC Styrenics Company Limited

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GCS Plant

Sample No : W 65031094

Sample Name : MW 03 (ท่ายน้ำ)

Sampling Date : 09/03/2022

Sampling By : ETC

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 10/03/2022

Tested Date : 10/03/2022 - 24/03/2022

Reported Date : 01/04/2022

Parameter	Unit	Method	Result	Standard ¹
Ethylbenzene #	mg/l	APHA 6200 B	ND	≤2
Styrene monomer #	mg/l	APHA 6200 B	ND	≤24

Physical Apperance : 1. Sample : yellowish, lightly SS

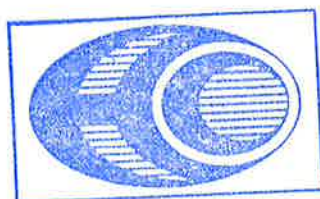
2. Container : Normal [PE 2.0 L, G 2.5 L [2 Bottle]]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/l)

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

01/04/2022

การตรวจสอบระดับน้ำและทิศทางการไหลของน้ำใต้ดิน



รายงาน

การสำรวจระดับน้ำและทิศทางการไหลของน้ำใต้ดิน
บริษัท จีซี สไตรีนิกส์ จำกัด

จัดทำโดย

คณะวิศวกรรมศาสตร์ มหาวิทยาลัยนเรศวร

99 หมู่ 9 ตำบลท่าโพธิ์ อำเภอเมืองพิษณุโลก จังหวัดพิษณุโลก 65000

มีนาคม 2565



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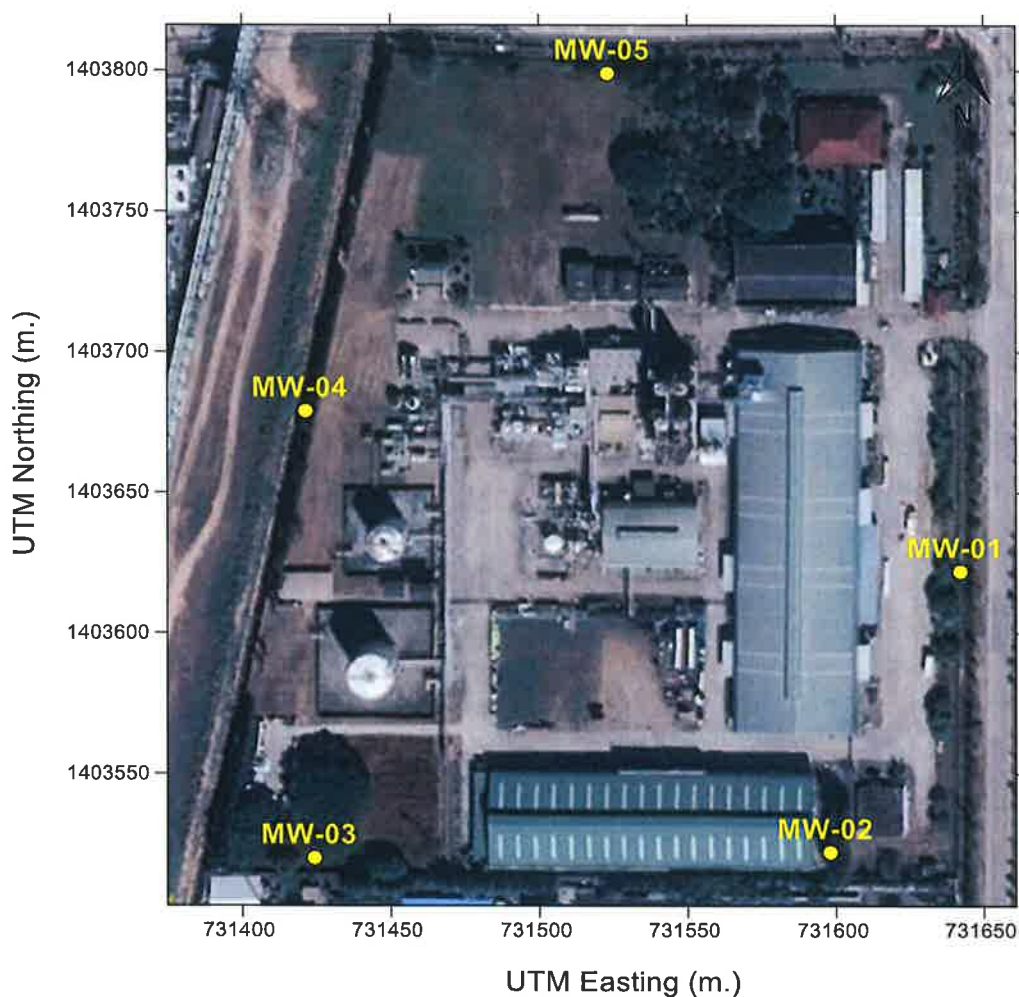
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การสำรวจระดับน้ำและทิศทางการไหลของน้ำใต้ดินและผลการสำรวจ

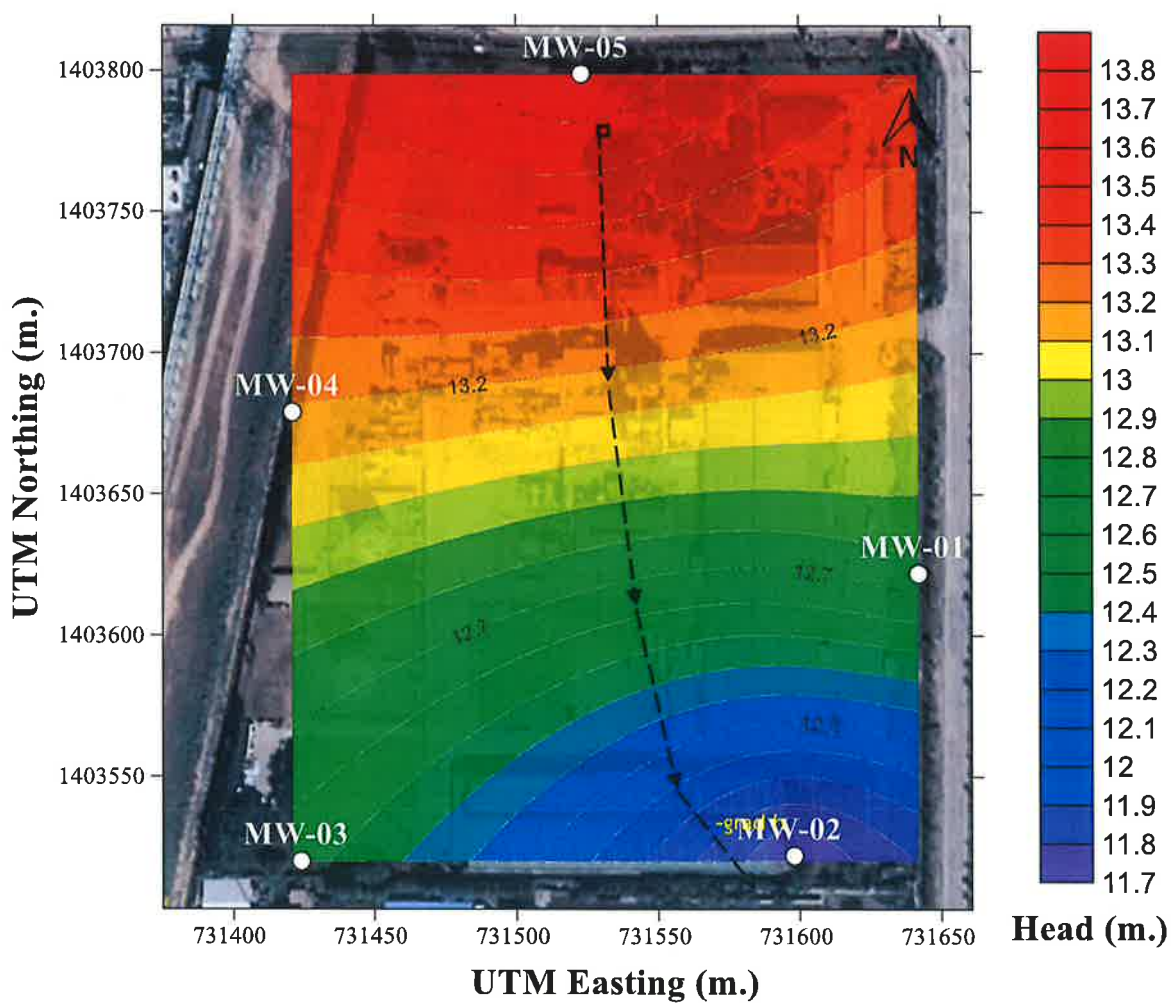
จากการสำรวจระดับน้ำใต้ดินในพื้นที่ บริษัท จีซี สไตรีนิกส์ จำกัด จากบ่อเฝ้าระวังการปนเปื้อนของน้ำใต้ดินจำนวน 5 บ่อ โดยแต่ละบ่อมีตำแหน่งดังที่แสดงตามรูปที่ 1 นั้น ทำให้ทราบระดับความสูงของพื้นที่บริเวณที่ติดตั้งบ่อ ความลึกของบ่อ ระดับน้ำภายในบ่อวัดจากท่อด้านบน และความสูงจากพื้นถึงหัวบ่อ ดังแสดงรายละเอียดในตารางที่ 1 และสามารถคำนวณหาระดับความสูงทางชลศาสตร์ของน้ำใต้ดินได้โดยใช้โปรแกรม Surfer ดังแสดงในรูปที่ 2 และด้วยวิธีการคำนวณมอดังแสดงในรูปที่ 3 (ดูภาคผนวก A) ซึ่งจากการสำรวจพบว่า ทิศทางการไหลของน้ำใต้ดิน มีทิศทางการไหลของน้ำใต้ดินจากทิศตะวันตกเฉียงเหนือไปทางทิศตะวันออกเฉียงใต้ สอดคล้องกันสำหรับทั้ง 2 วิธี



รูปที่ 1 ตำแหน่งบ่อในแผนที่ภาพถ่ายทางอากาศ

ตารางที่ 1 พิกัด ระดับความสูงของพื้นที่ติดตั้งบ่อ (A) ความลึกของบ่อ ระดับน้ำภายในบ่อโดยวัดจากท่อด้านบน (B) ความสูงพื้นถึงหัวบ่อ (C)

ลำดับ	ชื่อ	พิกัดบ่อ UTM	ระดับความสูงจาก ระดับน้ำทะเล (A)	ความลึกบ่อ (เมตร)	ระดับน้ำภายในบ่อ (เมตร) จากท่อ ด้านบน (B)	ความสูงพื้นถึง หัวบ่อ (เมตร) (C)
1	MW-01	47 P 731643 ม. ตะวันออก 1403625 ม. เหนือ	13.62	12.05	1.20	0.35
2	MW-02	47 P 731603 ม. ตะวันออก 1403521 ม. เหนือ	13.84	12.10	2.50	0.36
3	MW-03	47 P 731423 ม. ตะวันออก 1403516 ม. เหนือ	13.21	12.15	1.00	0.33
4	MW-04	47 P 731422 ม. ตะวันออก 1403677 ม. เหนือ	14.21	12.10	1.40	0.38
5	MW-05	47 P 731521 ม. ตะวันออก 1403802 ม. เหนือ	14.41	12.00	1.00	0.38



รูปที่ 2 เส้นระดับความสูงทางชลศาสตร์ของน้ำใต้ดิน (คำนวณจาก $A+C-B$ ที่แต่ละตำแหน่งบ่อเฝ้าระวัง)
แสดงทิศทางการไหลของน้ำใต้ดินจากทิศตะวันตกเฉียงเหนือไปทางทิศตะวันออกเฉียงใต้

การคำนวณแบบ Manual

คำนวณเส้นระดับความสูงทางชลศาสตร์ของน้ำใต้ดินจากตารางที่ 1 โดยใช้ข้อมูล ระดับความสูงจากระดับน้ำทะเล (A) + ความสูงพื้นถึงหัวบ่อ (เมตร) (C) - ระดับน้ำภายในบ่อ (เมตร) จากท่อด้านบน (B) พิจารณาให้ระดับน้ำทะเลปานกลาง (ร.ท.ก.) เป็นระดับอ้างอิง จะได้ระดับความสูงทางชลศาสตร์ของน้ำใต้ดิน (h) ของบ่อจำนวนทั้ง 5 บ่อ ดังนี้

วิธีทำ

$$h_{MW01} (13.62+0.35-1.20) = 12.77 \text{ m.}$$

$$h_{MW02} (13.84+0.36-2.50) = 11.70 \text{ m.}$$

$$h_{MW03} (13.21+0.33-1.00) = 12.54 \text{ m.}$$

$$h_{MW04} (14.21+0.38-1.40) = 13.19 \text{ m.}$$

$$h_{MW05} (14.41+0.38-1.00) = 13.79 \text{ m.}$$

เนื่องจากความสูงทางชลศาสตร์ของน้ำใต้ดินที่บ่อ MW05 > บ่อ MW04 > บ่อ MW01 > บ่อ MW03 และ > บ่อ MW02 ตามลำดับ เมื่อได้ข้อมูลความสูงทางชลศาสตร์ของน้ำใต้ดินด้วยวิธีการกราฟิกดังแสดงในรูปที่ 2 ทำให้ทราบแนวการไหลของน้ำใต้ดิน โดยแสดงเส้นแนวเฮดเท่า (equipotential line) แนวทิศทางการไหลของน้ำใต้ดินสามารถคำนวณได้จากสมการนี้

$$i = \Delta h / \Delta L \quad \text{สมการที่ 1}$$

ค่าเกรเดียนต์ (i) คือ อัตราการเปลี่ยนแปลงของเฮดเทียบกับระยะทาง ($\Delta h / \Delta L$)

คำนวณหาทิศทางการไหลของน้ำใต้ดิน จากข้อมูลความสูงทางชลศาสตร์น้ำใต้ดินด้วยวิธีการกราฟิกที่แสดงในรูปที่ 2 ได้ดังนี้

- แนวบ่อ MW05 และ แนวบ่อ MW4 หาค่าเกรเดียนต์จากสมการที่ 1 ดังนี้

$$\Delta h_{MW5 \rightarrow MW4} = 13.19 - 13.79 = -0.6 \text{ m.}$$

$$\Delta L_{MW5 \rightarrow MW4} = 156 \text{ m.}$$

$$i = -0.003 \text{ m.}$$

ดังนั้น ทิศทางการไหลของน้ำใต้ดินย่อมตั้งฉากกับเส้นเฮดคงที่และชี้ไปยังทิศทางที่มีเฮดลดลง คือ ไปทางเส้นระดับบริเวณบ่อ MW4

- แนวบ่อ MW04 และ แนวบ่อ MW1 หาค่าเกรเดียนต์จากสมการที่ 1 ดังนี้

$$\Delta h_{MW4 \rightarrow MW1} = 12.77 - 13.19 = -0.42 \text{ m.}$$

$$\Delta L_{MW4 \rightarrow MW1} = 228 \text{ m.}$$

$$i = -0.002 \text{ m.}$$

ดังนั้น ทิศทางการไหลของน้ำใต้ดินย่อมตั้งฉากกับเส้นเขตคงที่และชี้ไปยังทิศทางที่มีเขตลดลง คือ ไปทางเส้นระดับคงที่แนวบ่อ MW1

- แนวบ่อ MW01 และ แนวบ่อ MW2 หาค่าเกรเดียนต์จากสมการที่ 1 ดังนี้

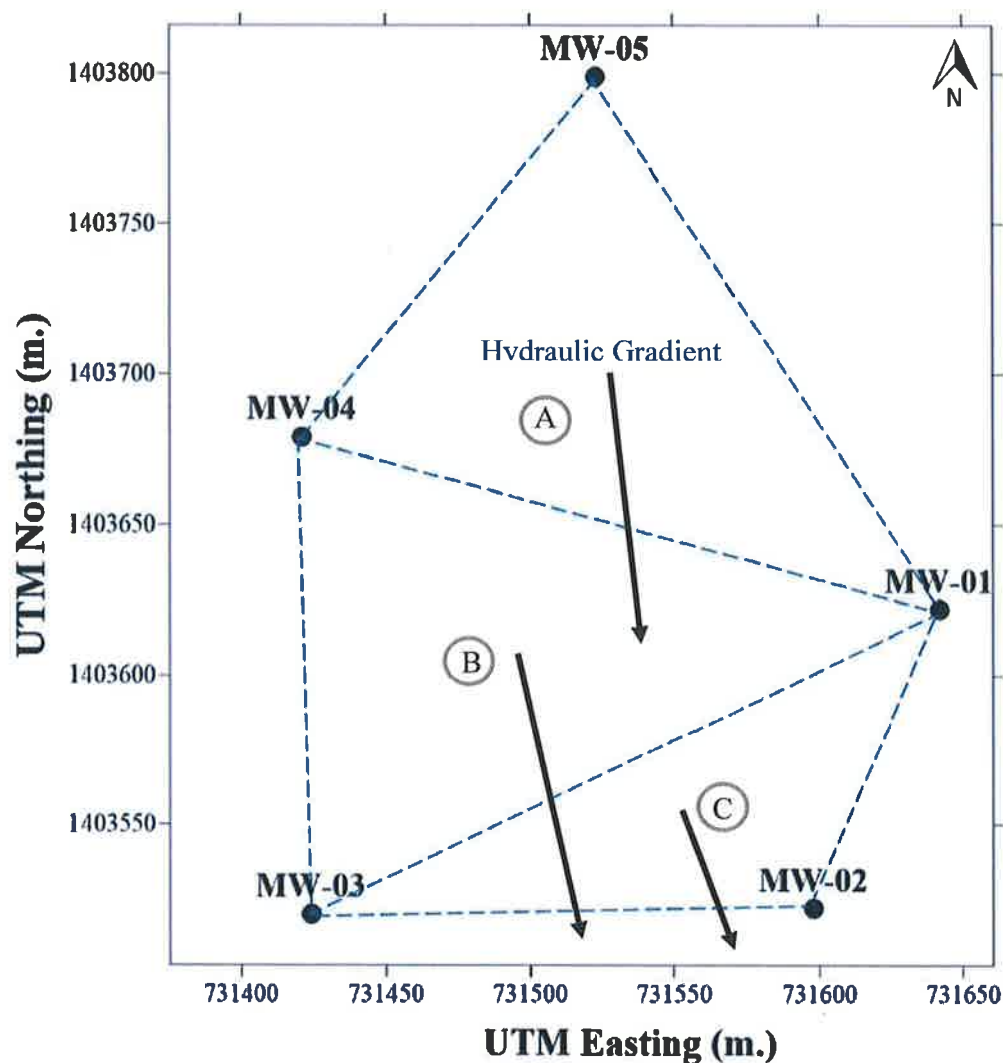
$$\Delta h_{MW1 \rightarrow MW2} = 11.70 - 12.77 = -1.07 \text{ m.}$$

$$\Delta L_{MW1 \rightarrow MW2} = 109 \text{ m.}$$

$$i = -0.010 \text{ m.}$$

ดังนั้น ทิศทางการไหลของน้ำใต้ดินย่อมตั้งฉากกับเส้นเขตคงที่และชี้ไปยังทิศทางที่มีเขตลดลง คือ ไปทางเส้นระดับคงที่แนวบ่อ MW2

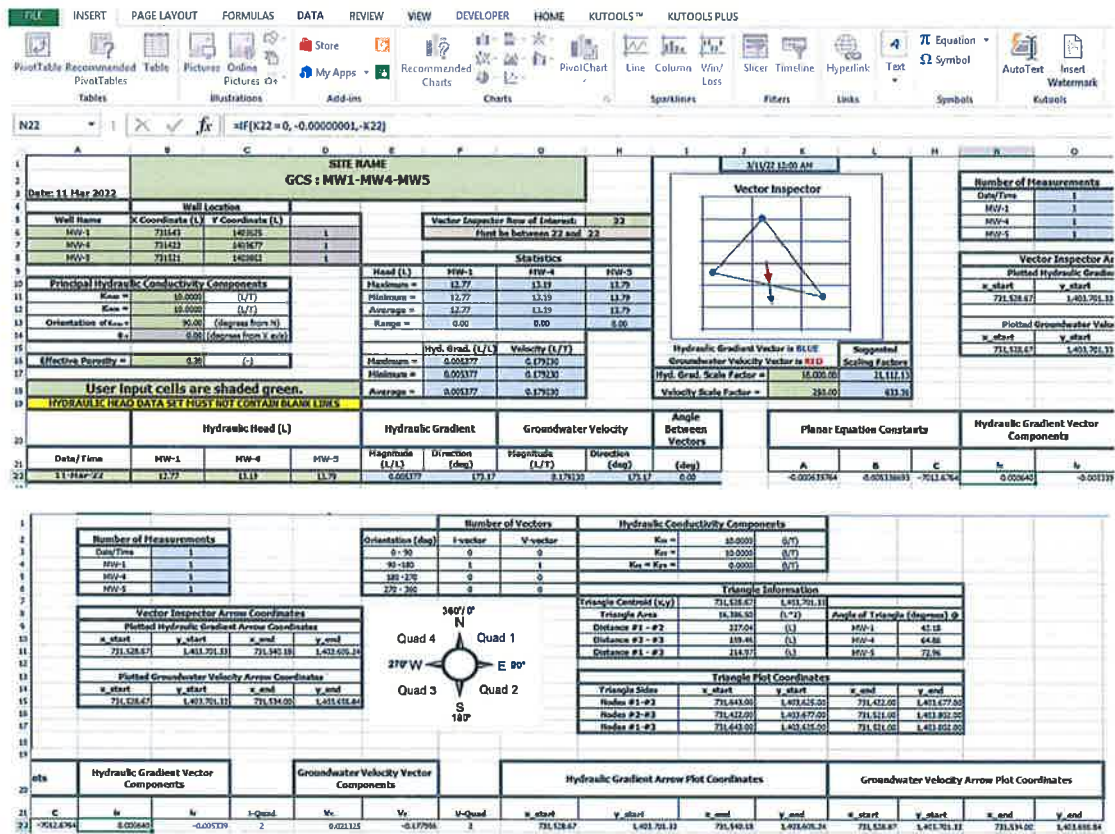
วิธีการแก้ปัญหสามจุด (three point problem)



รูปที่ 3 ผลลัพธ์เครือข่ายของปัญหาสามจุดที่ใช้คำนวณหาเกรเดียนต์ ทิศทางการไหลของน้ำใต้ดินในส่วนพื้นที่ภายในสามเหลี่ยม A B และ C (เส้นประสีฟ้า) ได้จากการคำนวณแบบ Manual ด้วยวิธีการแก้ปัญหสามจุดที่พัฒนาขึ้นในรูปแบบ 3PE จาก Microsoft Excel® (Beljin, Ross, & Acree, 2013) ใน Appendix A พบว่าทิศทางการไหลของน้ำใต้ดินเฉลี่ยสอดคล้องกับการคำนวณโปรแกรมด้วยวิธีกราฟฟิกตามรูปที่ 2 โดยมีทิศตะวันตกเฉียงเหนือไปทางทิศตะวันออกเฉียงใต้

Appendix A.

ผลที่ได้จากการคำนวณในรูปแบบ 3PE Workbook Excel® file (Beljin, Ross, & Acree, 2013) ที่นำมาใช้เพื่อเปรียบเทียบผลที่ได้จากการคำนวณของโปรแกรมด้วยวิธีการกราฟิกที่แสดงรูปที่ 2 จากข้อมูลทางชลศาสตร์ของน้ำใต้ดินเดือนมีนาคม พ.ศ. 2565



รูปที่ 4 ตัวอย่างหน้าจอแสดงผลการกรอกข้อมูลใน 3PE Workbook Excel® file

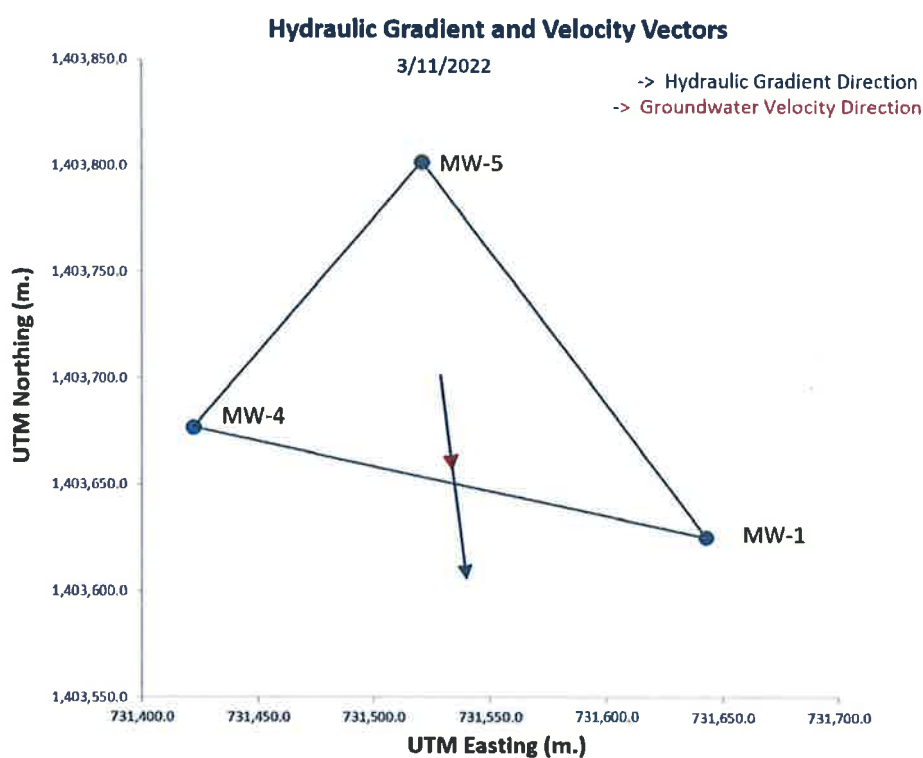
การคำนวณหาทิศทางการไหลของน้ำใต้ดินจากสามตำแหน่ง ในส่วนพื้นที่ภายในสามเหลี่ยม A B และ C ตามรูปที่ 3

ส่วนของพื้นที่สามเหลี่ยม A การคำนวณหาเวกเตอร์ทิศทางการไหลของน้ำใต้ดินโดยใช้ข้อมูล 3 ตำแหน่ง

Well Name	Well Location		
	X Coordinate (L)	Y Coordinate (L)	
MW-1	731643	1403625	1
MW-4	731422	1403677	1
MW-5	731521	1403802	1

ตรวจสอบการคำนวณความยาวของด้านสามเหลี่ยม:

Triangle Information				
Triangle Centroid (x,y)	731,528.67	1,403,701.33		
Triangle Area	16,386.50	(L ²)	Angle of Triangle (degrees) @	
Distance #1 - #2	227.04	(L)	MW-1	42.18
Distance #2 - #3	159.46	(L)	MW-4	64.86
Distance #1 - #3	214.97	(L)	MW-5	72.96



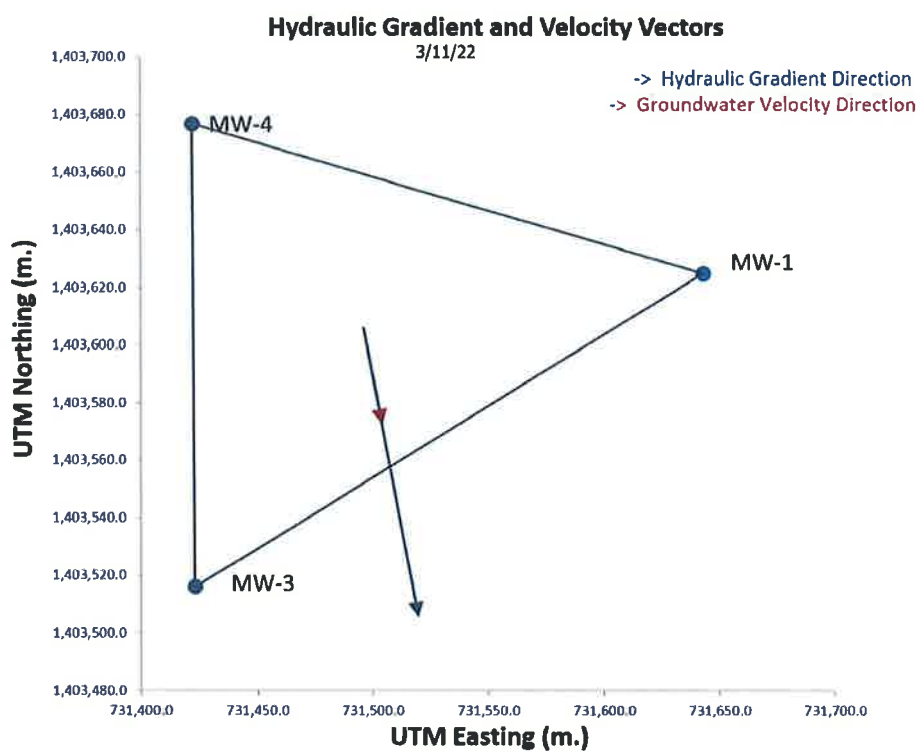
รูปที่ 5 ผลที่ได้จากการคำนวณทิศทางการไหลของน้ำใต้ดินในพื้นที่สามเหลี่ยมของ MW-5 MW-4 และ MW-1

ส่วนของพื้นที่สามเหลี่ยม B การคำนวณหาเวกเตอร์ทิศทางการไหลของน้ำใต้ดินโดยใช้ข้อมูล 3 ตำแหน่ง

Well Name	Well Location	
	X Coordinate (L)	Y Coordinate (L)
MW-3	731423	1403516
MW-1	731643	1403625
MW-4	731422	1403677

ตรวจสอบการคำนวณความยาวของด้านสามเหลี่ยม:

Triangle Information				
Triangle Centroid (x,y)	731,496.00	1,403,606.00		
Triangle Area	17,764.50	(L ²)	Angle of Triangle (degrees) @	
Distance #1 - #2	245.52	(L)	MW-3	64.00
Distance #2 - #3	227.04	(L)	MW-1	39.60
Distance #1 - #3	161.00	(L)	MW-4	76.40



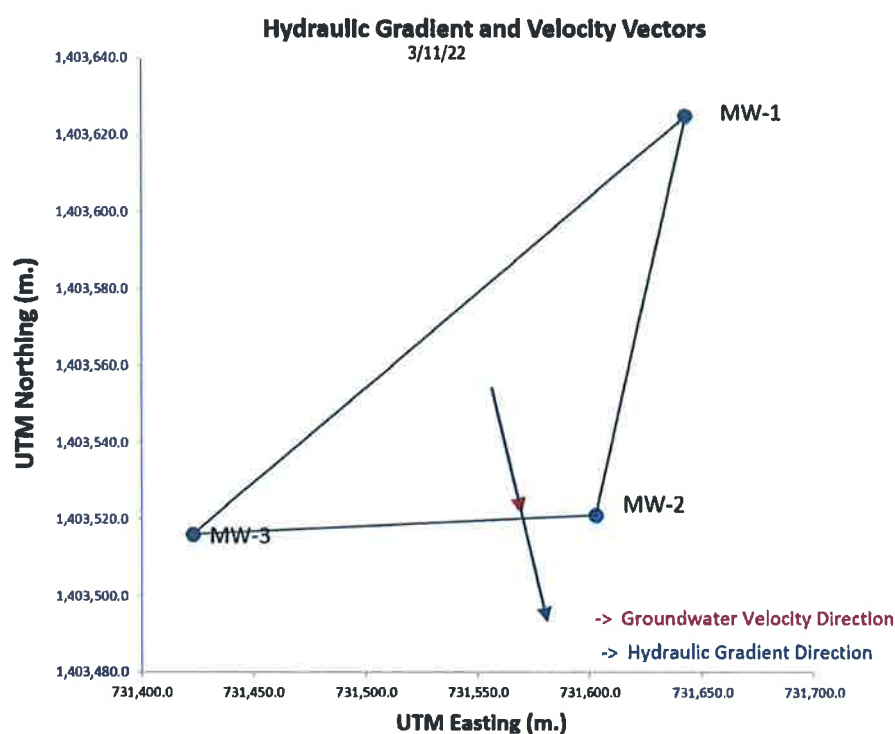
รูปที่ 6 ผลที่ได้จากการคำนวณทิศทางการไหลของน้ำใต้ดินในพื้นที่สามเหลี่ยมของ MW-4 MW-3 และ MW-1

ส่วนของพื้นที่สามเหลี่ยม C การคำนวณหาเวกเตอร์ทิศทางการไหลของน้ำใต้ดินโดยใช้ข้อมูล 3 ตำแหน่ง

Well Name	Well Location	
	X Coordinate (L)	Y Coordinate (L)
MW-1	731643	1403625
MW-2	731603	1403521
MW-3	731423	1403516

ตรวจสอบการคำนวณความยาวของด้านสามเหลี่ยม:

Triangle Information				
Triangle Centroid (x,y)	731,556.33	1,403,554.00		
Triangle Area	9,260.00	(L ²)	Angle of Triangle (degrees) @	
Distance #1 - #2	111.43	(L)	MW-1	42.61
Distance #2 - #3	180.07	(L)	MW-2	112.63
Distance #1 - #3	245.52	(L)	MW-3	24.77



รูปที่ 7 ผลที่ได้จากการคำนวณทิศทางการไหลของน้ำใต้ดินในพื้นที่สามเหลี่ยมของ MW-1 MW-3 และ MW-2

References

- Beljin, M., Ross, R. R., & Acree, S. D. (2013). *3PE: a tool for estimating groundwater flow vectors*: EPA.

ผลการทดสอบคุณภาพอากาศในบริเวณการทำงาน

Request No. ATR6503025

Report No. 6503-0395

TEST REPORT

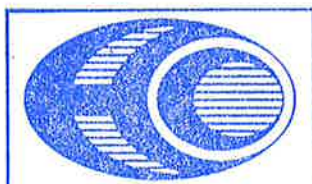
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : ปริเวณ Pelletizer1
 SAMPLING DATE : 08/03/2022
 RECEIVED DATE : 10/03/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min
 Serial No. 20180903085

SAMPLE NO. : A65030395
 SAMPLING TIME : 07:15-09:15
 TESTED DATE : 10/03/2022-15/03/2022
 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m ³

REMARK:^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

18/03/2022

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Request No. ATR6505076

Report No. 6505-1267

TEST REPORT

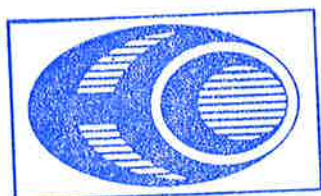
CUSTOMER : GC Styrenics Company Limited.
 ADDRESS : 7 I -1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Pelletizer 1
 SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051267
 RECEIVED DATE : 30/05/2022 SAMPLING TIME : 08:22-10:22
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 30/05/2022-01/06/2022
 Serial No. 20180903093 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT ^{/3}	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m ³

REMARK:^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)^{/3} MDL = Method Detection Limit [MDL of Total Dust = 0.3 mg/m³] / ND = Not Detected

* Parameter not have License Registration of Department of Labour Protection and Welfare.

(Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

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Request No. ATR6503025

Report No. 6503-0396

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บรีเวณ Pelletizer 1
 SAMPLING DATE : 08/03/2022
 RECEIVED DATE : 10/03/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
 Serial No. 20150302003

SAMPLE NO. : A65030396
 SAMPLING TIME : 07:15-09:15
 TESTED DATE : 10/03/2022-16/03/2022
 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ¹	STD ²	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m ³
		< 0.89	100	10	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.² American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

18/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/03/2022

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Request No. ATR6505076

Report No. 6505-1268

TEST REPORT

CUSTOMER : GC Styrenics Company Limited.
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Pelletizer 1
 SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051268
 RECEIVED DATE : 30/05/2022 SAMPLING TIME : 08:22-10:22
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 30/05/2022-31/05/2022
 Serial No. 218445 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

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Request No. ATR6503025

Report No. 6503-0397

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : ปริเวณ Pelletizer1
 SAMPLING DATE : 08/03/2022 SAMPLE NO. : A65030397
 RECEIVED DATE : 10/03/2022 SAMPLING TIME : 07:15-09:15
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/03/2022-16/03/2022
 Serial No. 20150302003 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	< 3.63	435	87	mg/m ³
	Chromatography/NIOSH 1501	< 0.83	100	20	ppm

REMARK:

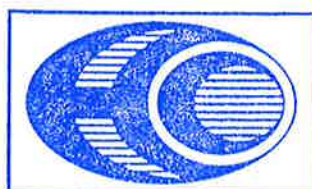
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

18/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/03/2022

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Request No. ATR6505076

Report No. 6505-1269

TEST REPORT

CUSTOMER : GC Styrenics Company Limited.
ADDRESS : 7 I -1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE NAME : บริเวณ Pelletizer 1
SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051269
RECEIVED DATE : 30/05/2022 SAMPLING TIME : 08:22-10:22
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 30/05/2022-31/05/2022
Serial No. 218445 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	< 3.63	435	87	mg/m ³
	Chromatography/NIOSH 1501	< 0.83	100	20	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2562 (2019)

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

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Request No. ATR6503025

Report No. 6503-0398

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Pellettizer 2
 SAMPLING DATE : 08/03/2022 SAMPLE NO. : A65030398
 RECEIVED DATE : 10/03/2022 SAMPLING TIME : 07:05-09:05
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 10/03/2022-15/03/2022
 Serial No. 20181001041 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT ^{/3}	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m ³

REMARK:^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)^{/3} MDL = Method Detection Limit [MDL of Total Dust = 0.3 mg/m³] / ND = Not Detected

* Parameter not have License Registration of Department of Labour Protection and Welfare.

(Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Examined By.....

(Mr. Kawee Suthasub)

18/03/2022

Request No. ATR6505076

Report No. 6505-1270

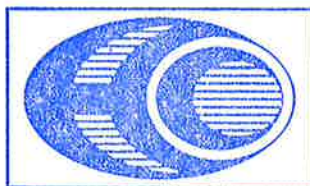
TEST REPORT

CUSTOMER : GC Styrenics Company Limited.
 ADDRESS : 7 I -1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : ปริเวณ Pelletizer 2
 SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051270
 RECEIVED DATE : 30/05/2022 SAMPLING TIME : 08:17-10:17
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 30/05/2022-01/06/2022
 Serial No. 20160502011 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m ³

REMARK:^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

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Request No. ATR6503025

Report No. 6503-0399

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : ปริมาณ Pellettizer 2
 SAMPLING DATE : 08/03/2022
 RECEIVED DATE : 10/03/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
 Serial No. 20200403071

SAMPLE NO. : A65030399
 SAMPLING TIME : 07:05-09:05
 TESTED DATE : 10/03/2022-16/03/2022
 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ¹	STD ²	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m ³
		< 0.89	100	10	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.² American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

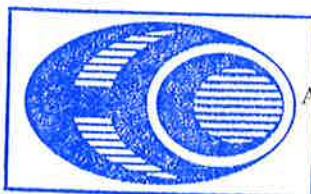
* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.(Sampling By Mr. Witchawan Singto)

Examined By



(Miss Thanatporn Klinsochon)

18/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

18/03/2022

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Request No. ATR6505076

Report No. 6505-1271

TEST REPORT

CUSTOMER : GC Styrenics Company Limited.
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE NAME : บริเวณ Pelletizer 2
SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051271
RECEIVED DATE : 30/05/2022 SAMPLING TIME : 08:17-10:17
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 30/05/2022-31/05/2022
Serial No. 218408 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

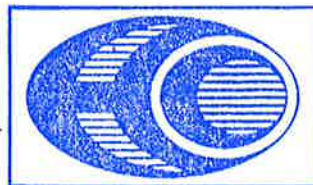
* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Request No. ATR6503025

Report No. 6503-0400

TEST REPORT

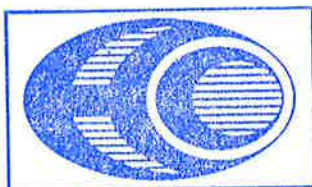
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Zn Loading at Plant 1
 SAMPLING DATE : 08/03/2022
 RECEIVED DATE : 10/03/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min
 Serial No. 20180903083

SAMPLE NO. : A65030400
 SAMPLING TIME : 11:00-13:00
 TESTED DATE : 10/03/2022-15/03/2022
 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m ³

REMARK:^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

18/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6505076

Report No. 6505-1273

TEST REPORT

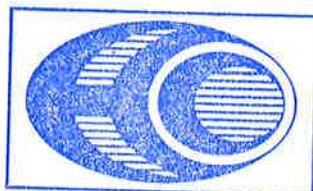
CUSTOMER : GC Styrenics Company Limited.
 ADDRESS : 7 I -1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Zn Loading at Plant 1
 SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051273
 RECEIVED DATE : 30/05/2022 SAMPLING TIME : 11:10-13:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 30/05/2022-01/06/2022
 Serial No. 20200403073 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	0.9	15	10	mg/m ³

REMARK:

^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6503025

Report No. 6503-0401

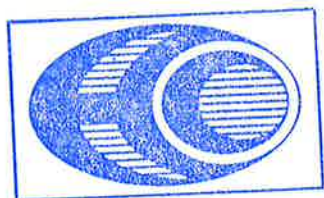
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Zn Loading at Plant 2
 SAMPLING DATE : 08/03/2022 SAMPLE NO. : A65030401
 RECEIVED DATE : 10/03/2022 SAMPLING TIME : 11:00-13:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 10/03/2022-15/03/2022
 Serial No. 20200403065 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ¹	STD ²	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m ³

REMARK:¹ Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.² American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

18/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6505076

Report No. 6505-1274

TEST REPORT

CUSTOMER : GC Styrenics Company Limited.

ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE NAME : บริเวณ Zn Loading at Plant 2

SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051274

RECEIVED DATE : 30/05/2022 SAMPLING TIME : 11:00-13:00

SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 30/05/2022-01/06/2022

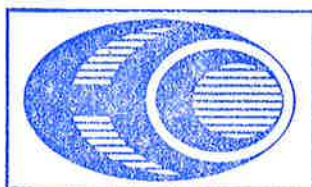
Serial No. 20200403079 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	1.4	15	10	mg/m ³

REMARK:^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.

(Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6503025

Report No. 6503-0402

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Bagging Unit
 SAMPLING DATE : 08/03/2022 SAMPLE NO. : A65030402
 RECEIVED DATE : 10/03/2022 SAMPLING TIME : 08:10-10:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 10/03/2022-15/03/2022
 Serial No. 20180903084 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m ³

REMARK:

^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

18/03/2022

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Request No. ATR6505076

Report No. 6505-1272

TEST REPORT

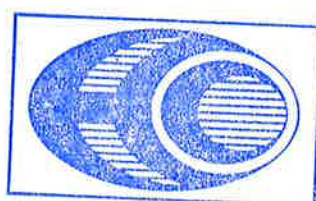
CUSTOMER : GC Styrenics Company Limited.
 ADDRESS : 7 I -1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ Bagging Unit
 SAMPLING DATE : 23/05/2022 SAMPLE NO. : A65051272
 RECEIVED DATE : 30/05/2022 SAMPLING TIME : 08:26-10:26
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 30/05/2022-01/06/2022
 Serial No. 20200403063 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	0.8	15	10	mg/m ³

REMARK:

^{/1} Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter not have License Registration of Department of Labour Protection and Welfare.
 (Sampling By Mr. Witchawan Singto)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6503025

Report No. 6503-0403

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณห้องตัดยาง
 SAMPLING DATE : 08/03/2022 SAMPLE NO. : A65030403
 RECEIVED DATE : 10/03/2022 SAMPLING TIME : 07:10-09:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/03/2022-16/03/2022
 Serial No. 20200403076 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.(Sampling By Mr. Witchawan Singto)

Examined By



(Miss Thanatporn Klinson)

18/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

18/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6505076

Report No. 6505-1275

TEST REPORT

CUSTOMER : GC Styrenics Company Limited.
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE NAME : บริเวณห้องตัดยาง
SAMPLING DATE : 23/05/2022
RECEIVED DATE : 30/05/2022
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
Serial No. 218385

SAMPLE NO. : A65051275
SAMPLING TIME : 11:05-13:05
TESTED DATE : 30/05/2022-31/05/2022
REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m ³
		< 0.89	100	10	ppm

REMARK:

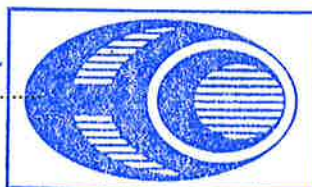
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Approved By

(Mr. Kawee Suthasub)

02/06/2022

Request No. ATR6503025

Report No. 6503-0404

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ SM Truck Loading
 SAMPLING DATE : 08/03/2022
 RECEIVED DATE : 10/03/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
 Serial No. 20200403077

SAMPLE NO. : A65030404
 SAMPLING TIME : 09:00-11:00
 TESTED DATE : 10/03/2022-16/03/2022
 REPORTED DATE : 18/03/2022

PARAMETER*	TEST METHOD	RESULT	STD ¹	STD ²	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals² American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

18/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/03/2022

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Request No. ATR6505076

Report No. 6505-1276

TEST REPORT

CUSTOMER : GC Styrenics Company Limited.
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE NAME : บริเวณ SM Truck Loading
 SAMPLING DATE : 24/05/2022 SAMPLE NO. : A65051276
 RECEIVED DATE : 30/05/2022 SAMPLING TIME : 10:00-12:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 30/05/2022-31/05/2022
 Serial No. 218444 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	STD ^{/2}	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

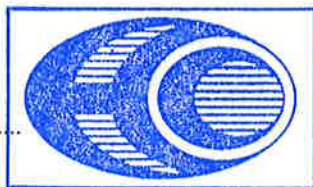
* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

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ผลการตรวจวัดระดับเสียงในบริเวณการทำงาน



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0331

Report No. R6503-0540

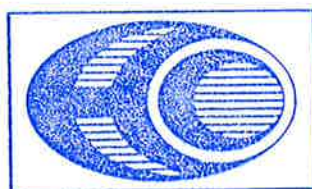
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : ห้องตัดเม็ด (X-133)
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2


SAMPLE NO. : 03016
MEASURING DATE : 08/03/2022
RECEIVED DATE : 08/03/2022
REPORTED DATE : 10/03/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:15-08:15	83.6	87.1	dB(A)
08:15-09:15	77.1	86.3	dB(A)
09:15-10:15	69.8	72.5	dB(A)
10:15-11:15	70.2	71.9	dB(A)
11:15-12:15	70.1	71.3	dB(A)
12:15-13:15	70.2	70.9	dB(A)
13:15-14:15	70.8	72.9	dB(A)
14:15-15:15	69.9	71.8	dB(A)
15:15-16:15	70.2	71.2	dB(A)
16:15-17:15	70.5	75.9	dB(A)
17:15-18:15	72.6	76.4	dB(A)
18:15-19:15	82.5	86.3	dB(A)
L_{eq} 12 hr.	76.7	—	dB(A)
Standard	87 ¹⁾	140 ¹⁾ , 115 ²⁾	dB(A)

REMARK : ¹⁾ Notification of The Ministry of Industry B.E. 2546 (2003)
²⁾ Regulation of The Ministry of Labour B.E. 2559 (2016)
* Ms. Thanatporn Klinsoopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

10/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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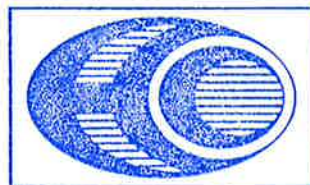
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : ห้องตัดเม็ด (2X-233)
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 00443357 : Type 2

SAMPLE NO. : 03017
MEASURING DATE : 08/03/2022
RECEIVED DATE : 08/03/2022
REPORTED DATE : 10/03/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:05-08:05	89.1	90.7	dB(A)
08:05-09:05	87.1	88.0	dB(A)
09:05-10:05	78.7	89.4	dB(A)
10:05-11:05	69.7	71.1	dB(A)
11:05-12:05	69.9	71.0	dB(A)
12:05-13:05	70.1	71.2	dB(A)
13:05-14:05	70.5	72.4	dB(A)
14:05-15:05	71.5	75.0	dB(A)
15:05-16:05	71.8	72.7	dB(A)
16:05-17:05	72.4	73.3	dB(A)
17:05-18:05	77.7	87.3	dB(A)
18:05-19:05	87.0	87.4	dB(A)
L_{eq} 12 hr.	82.3	-	dB(A)
Standard	87 ¹	140 ¹ , 115 ²	dB(A)

REMARK : ¹ Notification of The Ministry of Industry B.E. 2546 (2003)
² Regulation of The Ministry of Labour B.E. 2559 (2016)
* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

10/03/2022

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : Bagging Unit
PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max}
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 01209915 : Type 2
SAMPLE NO. : 03015
MEASURING DATE : 08/03/2022
RECEIVED DATE : 08/03/2022
REPORTED DATE : 10/03/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:00-09:00	82.8	86.5	dB(A)
09:00-10:00	85.0	87.1	dB(A)
10:00-11:00	84.8	92.9	dB(A)
11:00-12:00	83.7	87.4	dB(A)
12:00-13:00	70.5	73.3	dB(A)
13:00-14:00	83.6	88.9	dB(A)
14:00-15:00	81.6	94.4	dB(A)
15:00-16:00	81.0	88.3	dB(A)
L_{eq} 8 hr.	82.9	—	dB(A)
Standard	90 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)

^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

10/03/2022



ACCREDITED
ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0331

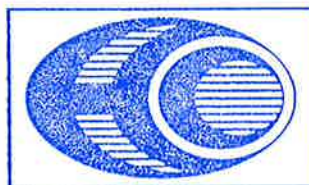
Report No. R6503-0543

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : Vacuum Pump
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 00310456 : Type 2
SAMPLE NO. : 03019
MEASURING DATE : 08/03/2022
RECEIVED DATE : 08/03/2022
REPORTED DATE : 10/03/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:10-08:10	89.0	90.1	dB(A)
08:10-09:10	87.8	88.3	dB(A)
09:10-10:10	86.4	88.3	dB(A)
10:10-11:10	79.5	91.9	dB(A)
11:10-12:10	79.1	86.6	dB(A)
12:10-13:10	78.3	87.6	dB(A)
13:10-14:10	78.6	86.7	dB(A)
14:10-15:10	78.8	83.5	dB(A)
15:10-16:10	78.7	82.1	dB(A)
16:10-17:10	78.4	83.9	dB(A)
17:10-18:10	78.8	84.0	dB(A)
18:10-19:10	87.7	88.2	dB(A)
L_{eq} 12 hr.	84.0	—	dB(A)
Standard	87 ¹⁾	140 ¹⁾ , 115 ²⁾	dB(A)

REMARK : ¹⁾ Notification of The Ministry of Industry B.E. 2546 (2003)
²⁾ Regulation of The Ministry of Labour B.E. 2559 (2016)
* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

10/03/2022

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683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



Request No. LA65-R0331

Report No. R6503-0542

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : ห้องตัดยาง

PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}

DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010

INSTRUMENT : Integrated Sound Level Meter
S/N 00209071 : Type 2

SAMPLE NO. : 03018

MEASURING DATE : 08/03/2022

RECEIVED DATE : 08/03/2022

REPORTED DATE : 10/03/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:10-08:10	79.7	90.2	dB(A)
08:10-09:10	78.3	82.5	dB(A)
09:10-10:10	78.4	84.0	dB(A)
10:10-11:10	82.4	104.9 [#]	dB(A)
11:10-12:10	84.0	106.9 [#]	dB(A)
12:10-13:10	82.7	105.0 [#]	dB(A)
13:10-14:10	78.2	78.6	dB(A)
14:10-15:10	78.4	79.2	dB(A)
15:10-16:10	79.0	93.4	dB(A)
16:10-17:10	78.3	79.8	dB(A)
17:10-18:10	82.2	108.3 [#]	dB(A)
18:10-19:10	84.1	105.0 [#]	dB(A)
L_{eq} 12 hr.	81.1	-	dB(A)
Standard	87 ¹	140 ¹ , 115 ²	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of The Ministry of Industry B.E. 2546 (2003)

² Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

10/03/2022

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ผลการตรวจวัดระดับเสียงสะสม (Noise Dose)

Request No. LA65-R0553

Report No. R6505-0852

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณปรีชา อ่อนนามวงศ์ ID 26004526)
 MEASURING DATE : 11/05/2022 SAMPLE NO. : 07740
 RECEIVED DATE : 11/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 26/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	63.2	83 ^{/1}	dB(A)
L _{max} 12 hr	86.2	115 ^{/3}	dB(A)
12 Hour dose	1.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	65.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/05/2022

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Request No. LA65-R0553

Report No. R6505-0853

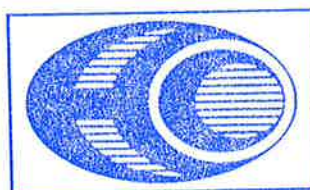
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (ถนนพัฒนา จิตรเอื้อ ID 26004560)
 MEASURING DATE : 11/05/2022 SAMPLE NO. : 07741
 RECEIVED DATE : 11/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 26/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	68.0	83 ^{/1}	dB(A)
L _{max} 12 hr	91.9	115 ^{/3}	dB(A)
12 Hour dose	3.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	69.8	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/05/2022

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Request No. LA65-R0553

Report No. R6505-0854

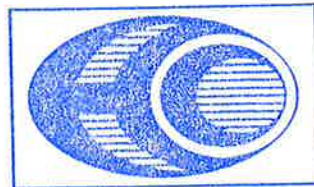
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (ศูนย์วัดรณ หนูแก้วเครือ ID 26004537)
MEASURING DATE : 11/05/2022 SAMPLE NO. : 07742
RECEIVED DATE : 11/05/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 26/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.8	83 ^{/1}	dB(A)
L _{max} 12 hr	95.7	115 ^{/3}	dB(A)
12 Hour dose	36.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.6	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/05/2022

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Request No. LA65-R0671

Report No. R6506-3046

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณอริปัทม์ อึ้งพยัคฆ์เดช ID 26008372)
 MEASURING DATE : 17/06/2022 SAMPLE NO. : 13330
 RECEIVED DATE : 17/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 21/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	59.3	83 ^{/1}	dB(A)
L _{max} 12 hr	82.6	115 ^{/3}	dB(A)
12 Hour dose	0.40	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	61.0	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

21/06/2022

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Request No. LA65-R0553

Report No. R6505-0856

TEST REPORT

CUSTOMER : GC Styrenics Company Limited

ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150

SAMPLE SOURCE : GCS Plant

SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณสมบัติวัสดุ ซีรีสุวรรณ ID 26004543)

MEASURING DATE : 11/05/2022 SAMPLE NO. : 07744

RECEIVED DATE : 11/05/2022 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 26/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.6	83 ^{/1}	dB(A)
L _{max} 12 hr	95.6	115 ^{/3}	dB(A)
12 Hour dose	55.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.4	85 ^{/1}	dB(A)

REMARK :

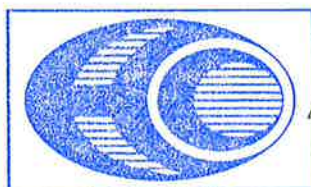
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/05/2022

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Request No. LA65-R0553

Report No. R6505-0857

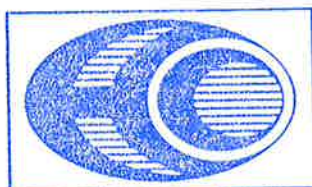
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณอิทธิพล วาดถนน ID 26004571)
 MEASURING DATE : 11/05/2022 SAMPLE NO. : 07745
 RECEIVED DATE : 11/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 26/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	63.2	83 ^{/1}	dB(A)
L _{max} 12 hr	84.0	115 ^{/3}	dB(A)
12 Hour dose	1.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	65.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/05/2022

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Request No. LA65-R0588

Report No. R6505-2452

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณภาพ สุขแสง ID 26004540)
 MEASURING DATE : 17/05/2022 SAMPLE NO. : 09342
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0451 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	70.2	83 ^{/1}	dB(A)
L _{max} 12 hr	86.6	115 ^{/3}	dB(A)
12 Hour dose	5.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	72.0	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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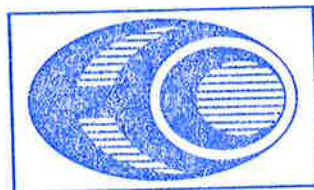
Request No. LA65-R0588

Report No. R6505-2453

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณนเรศ น่วมบัว ID 26004552)
 MEASURING DATE : 17/05/2022 SAMPLE NO. : 09343
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0452 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	68.0	83 ^{/1}	dB(A)
L _{max} 12 hr	86.0	115 ^{/3}	dB(A)
12 Hour dose	3.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	69.8	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2454

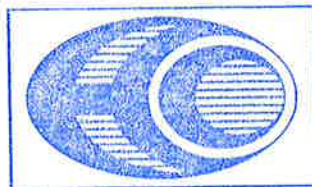
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณสมบัติ ท้องทวิทรัพย์ ID 26004536)
 MEASURING DATE : 17/05/2022 SAMPLE NO. : 09344
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0453 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.8	83 ^{/1}	dB(A)
L _{max} 12 hr	95.1	115 ^{/3}	dB(A)
12 Hour dose	45.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.5	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2455

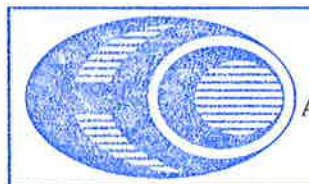
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณกฤษฎา พรหมกุลจันทร์ ID 26004547)
 MEASURING DATE : 17/05/2022 SAMPLE NO. : 09345
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0454 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.8	83 ^{/1}	dB(A)
L _{max} 12 hr	96.9	115 ^{/3}	dB(A)
12 Hour dose	18.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.6	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2456

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณนิवास ใจจิตร ID 26004557)
 MEASURING DATE : 17/05/2022 SAMPLE NO. : 09346
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0455 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.2	83 ^{/1}	dB(A)
L _{max} 12 hr	91.5	115 ^{/3}	dB(A)
12 Hour dose	31.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.9	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2457

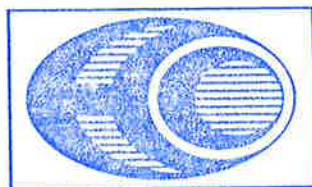
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณวุฒินันท์ โชคนิยมธรรม ID 26004568)
MEASURING DATE : 18/05/2022 SAMPLE NO. : 09347
RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0451 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.4	83 ^{/1}	dB(A)
L _{max} 12 hr	99.4	115 ^{/3}	dB(A)
12 Hour dose	26.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.1	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2458

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GCS Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณสมบัติ รัดนภูพา ID 26004533)
MEASURING DATE : 18/05/2022 SAMPLE NO. : 09348
RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0452 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	63.2	83 ^{/1}	dB(A)
L _{max} 12 hr	85.5	115 ^{/3}	dB(A)
12 Hour dose	1.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	65.0	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2459

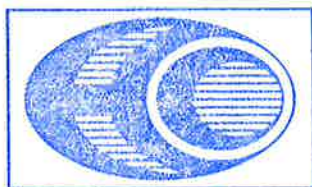
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณชาญวิทย์ อภิรัชต์กุล ID 26004569)
 MEASURING DATE : 18/05/2022 SAMPLE NO. : 09349
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0453 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.0	83 ^{/1}	dB(A)
L _{max} 12 hr	103.1	115 ^{/3}	dB(A)
12 Hour dose	24.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.8	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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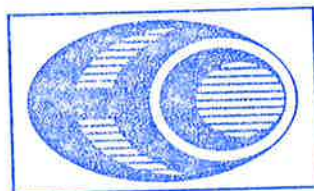
Request No. LA65-R0588

Report No. R6505-2460

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (จุดตรวจ ID 26004524)
 MEASURING DATE : 18/05/2022 SAMPLE NO. : 09350
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0454 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	60.2	83 ^{/1}	dB(A)
L _{max} 12 hr	82.4	115 ^{/3}	dB(A)
12 Hour dose	0.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	62.0	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2461

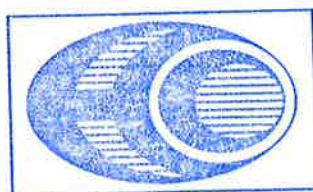
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณสมบัติพิเศษ ID 26004532)
 MEASURING DATE : 18/05/2022 SAMPLE NO. : 09351
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0455 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.3	83 ^{/1}	dB(A)
L _{max} 12 hr	100.3	115 ^{/3}	dB(A)
12 Hour dose	64.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.1	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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Request No. LA65-R0588

Report No. R6505-2462

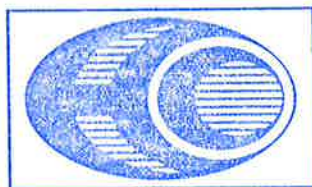
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณสมบัติ คงสาร ID 26004561)
 MEASURING DATE : 18/05/2022 SAMPLE NO. : 09352
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0631 REPORTED DATE : 24/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	71.0	83 ^{/1}	dB(A)
L _{max} 12 hr	90.7	115 ^{/3}	dB(A)
12 Hour dose	6.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	72.8	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2022

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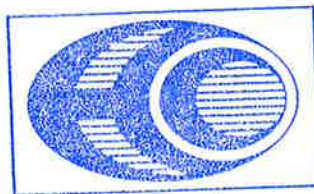
Request No. LA65-R0714

Report No. R6507-0415

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสมบัติ มหาเขตร ID 26004539)
 MEASURING DATE : 30/06/2022 SAMPLE NO. : 15669
 RECEIVED DATE : 30/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 05/07/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	56.2	83 ^{/1}	dB(A)
L _{max} 12 hr	84.7	115 ^{/3}	dB(A)
12 Hour dose	0.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	58.0	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/07/2022

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Request No. LA65-R05134

Report No. R6505-3229

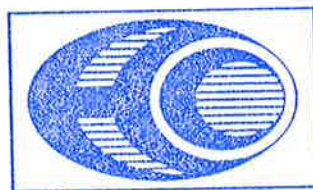
TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสมบัติ พรหมสร ID 26004556)
 MEASURING DATE : 23/05/2022 SAMPLE NO. : 10139
 RECEIVED DATE : 24/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 31/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.8	83 ^{/1}	dB(A)
L _{max} 12 hr	102.7	115 ^{/3}	dB(A)
12 Hour dose	18.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.6	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R05134

Report No. R6505-3230

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณชัยวัฒน์ ภมรคนเสวิต ID 26004535)
 MEASURING DATE : 23/05/2022 SAMPLE NO. : 10140
 RECEIVED DATE : 24/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8879 REPORTED DATE : 31/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	59.3	83 ^{/1}	dB(A)
L _{max} 12 hr	82.8	115 ^{/3}	dB(A)
12 Hour dose	0.40	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	61.0	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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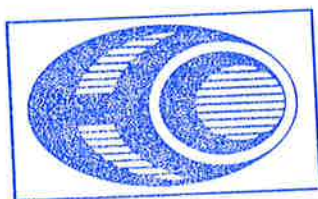
Request No. LA65-R0714

Report No. R6507-0414

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (จุดพิเศษรู้ หวานสนิท ID 26004553)
 MEASURING DATE : 30/06/2022 SAMPLE NO. : 15668
 RECEIVED DATE : 30/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 05/07/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.7	83 ^{/1}	dB(A)
L _{max} 12 hr	101.7	115 ^{/3}	dB(A)
12 Hour dose	22.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.4	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/07/2022

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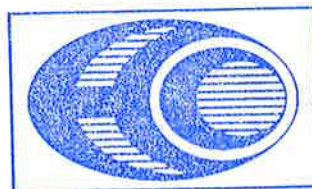
Request No. LA65-R05134

Report No. R6505-3232

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณจักรกริสน์ สมพรชัยกิจ ID 26004563)
 MEASURING DATE : 23/05/2022 SAMPLE NO. : 10142
 RECEIVED DATE : 24/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 31/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.3	83 ^{/1}	dB(A)
L _{max} 12 hr	101.8	115 ^{/3}	dB(A)
12 Hour dose	25.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.1	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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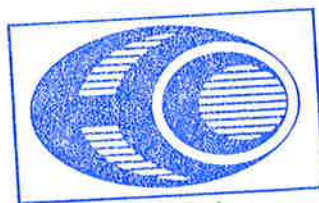
Request No. LA65-R05134

Report No. R6505-3233

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณณรงค์ สว่างดี ID 26004574)
 MEASURING DATE : 23/05/2022 SAMPLE NO. : 10143
 RECEIVED DATE : 24/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 31/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.9	83 ^{/1}	dB(A)
L _{max} 12 hr	104.2	115 ^{/3}	dB(A)
12 Hour dose	74.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.7	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R0671

Report No. R6506-3048

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : Bagging Unit (GPPS) (คุณอภิวัฒน์ สารรัมย์ ID 30633901)
 MEASURING DATE : 17/06/2022 SAMPLE NO. : 13332
 RECEIVED DATE : 17/06/2022 SAMPLING TIME : 08:00-17:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 21/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) [#]	75.1	85 ^{/1}	dB(A)
L _{max} 8 hr	94.4	115 ^{/3}	dB(A)
8 Hour dose	10.30	100 ^{/2}	%

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

21/06/2022

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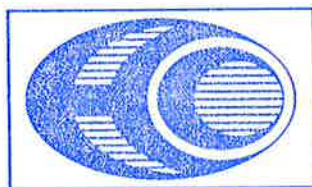
Request No. LA65-R05134

Report No. R6505-3236

TEST REPORT

CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : Bagging Unit (HIPS, GPPS) (คุณสมบัติ พรหมรอด ID 30621897)
 MEASURING DATE : 23-24/05/2022 SAMPLE NO. : 10146
 RECEIVED DATE : 24/05/2022 SAMPLING TIME : 16:00-01:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 31/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) [#]	80.1	85 ^{/1}	dB(A)
L _{max} 8 hr	89.6	115 ^{/3}	dB(A)
8 Hour dose	32.00	100 ^{/2}	%

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R05134

Report No. R6505-3234

TEST REPORT

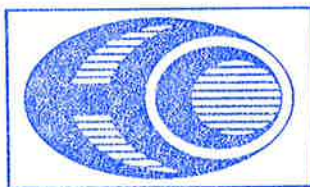
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : Bagging Unit (HIPS) (คุณธิติกร โกษากุล ID 30630987)
 MEASURING DATE : 23/05/2022 SAMPLE NO. : 10144
 RECEIVED DATE : 24/05/2022 SAMPLING TIME : 08:00-17:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 31/05/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) [#]	80.4	85 ^{/1}	dB(A)
L _{max} 8 hr	96.4	115 ^{/3}	dB(A)
8 Hour dose	34.30	100 ^{/2}	%

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare

(Measurement By Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R0690

Report No. R6507-4597

TEST REPORT

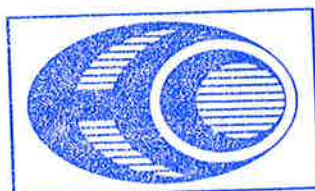
CUSTOMER : GC Styrenics Company Limited
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
 SAMPLE SOURCE : GCS Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต (Morning Shift) ผู้ช่วยช่าง (คุณอุดม ชื่นอารมย์ ID 00GI02181)
 MEASURING DATE : 24/06/2022 SAMPLE NO. : 14896
 RECEIVED DATE : 24/06/2022 SAMPLING TIME : 07:00-16:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 02/07/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) [#]	59.8	85 ^{/1}	dB(A)
L _{max} 8 hr	83.5	115 ^{/3}	dB(A)
8 Hour dose	0.30	100 ^{/2}	%

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MS. THANATPORN KLINSOPON)

02/07/2022

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